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NO. 1227

NATO REFERENCE MOBILITY MODEL EVALUATION OF THE ILTIS 4 × 4 TRUCK (U)

by

D.M. Hanna

and

D.M. Patterson

ACN 0316X

May 1988

DEFENCE RESEARCH ESTABLISHMENT SUFFIELD, RALSTON, ALBERTA

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ABSTRACT

The Directorate of Land Requirements (DLR), in an effort to assess the usefulness of the NATO Reference Mobility Model (NRMM) in vehicle procurement activities, initiated a study at the Defence Research Establishment Suffield with the following objectives: 1) to determine the difficulty and time required to provide all necessary NRMM input data for a typical wheeled vehicle; 2) to determine the time required to perform an NRMM evaluation; and 3) to establish a wheeled vehicle baseline. The vehicle chosen for this study was the Iltis 4X4 ¼ ton truck. All required vehicle characteristics were obtained within an acceptable time frame with the exception of the pitch-mass-moment of inertia of the sprung mass, which eventually was measured at an American laboratory. The NRMM simulation of the Iltis 4X4 required approximately one month to complete. The baseline performance is represented by curves of speed versus cumulative percent of area and by a mobility rating speed of 40 kilometers per hour over representative German terrain.

ACKNOWLEDGEMENTS

The authors express their gratitude to the staff of the Land Engineering Test Establishment, particularly Maj. C. Guerette and Mr. G. Isnor, for their extensive contributions by way of measurement of vehicle characteristics and performance, and to members of the Directorate of Land Requirements, most notably Col. D.B. McGibbon and Maj. J. Sharpe, for entertaining the possibility of using mobility modelling in vehicle procurement activities and for subsequently initiating this task.

The authors also acknowledge the continual assistance rendered by the Computer Group of DRES in support of modelling activities.

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1.0 INTRODUCTION

The NATO Reference Mobility Model (NRMM), a comprehensive computer program for predicting the mobility of land vehicles, is used regularly by the US Armed Forces to aid in vehicle procurement activities. It is utilized both to establish specifications of desired vehicle performance and to evaluate contending vehicles against these specifications.

The Directorate of Land Requirements (DLR) of the Canadian Forces, motivated by upcoming vehicle acquisition projects, is considering NRMM usage as well. This is the result of a desire by DLR staff to modernize and improve the specification of mobility requirements and the evaluation of mobility performance of contending vehicles. However, DLR became aware that, while NRMM mobility evaluations may be more desirable than those previously used, an NRMM simulation requires that prospective manufacturers provide extensive data regarding the specific characteristics of candidate vehicles. The following question resulted: "Are vehicle manufacturers prepared to devote the extra labour and expense required to provide this volume of vehicle data as an additional part of a proposal?"

Having had no prior requirements to determine the total complement of NRMM vehicle characteristics, it was deemed appropriate that DND gain experience with the determination of these data for an in-service vehicle, and hence establish the time and level of effort required to perform this chore. Also, it was obvious that a mobility evaluation of the same vehicle using the NRMM would provide an estimate of the time required for the analysis of a single vehicle and, at the same time, establish a wheeled vehicle baseline. For these reasons, DLR tasked the Vehicle Mobility Section of the Defence Research Establishment Suffield to perform an NRMM assessment of the Iltis 4X4 ¼ ton truck. This document reports on the experience of acquiring vehicle data and on the results of simulation runs.

2.0 NRMM INPUT DATA

This section briefly describes the vehicle and terrain information required by the NATO Reference Mobility Model for mobility performance predictions.

2.1 Vehicle Information

The NRMM requires input data regarding vehicle geometrical, inertial, and mechanical characteristics. Required geometrical data include items such as vehicle wheel base, approach and departure angles, and vehicle bottom profile. Sprung and unsprung masses and pitch-mass-moment of inertia are some of the necessary inertial quantities. Suspension characteristics and power train description represent the majority of essential mechanical information.

The work involved in acquiring this large amount of data for the Iltis vehicle was divided as follows:

1) the Land Engineering Test Establishment (LETE) was tasked to measure or calculate the more intricate (or difficult to determine) vehicle characteristics; these are listed in Annex A;

2) Bombardier, the vehicle manufacturer, was requested to provide suspension and power train information; and

3) DRES was left to measure the more easily determined geometrical characteristics.

A package of data sheets was assembled which itemizes all of the vehicle characteristics required to perform NRMM simulation runs for wheeled vehicles (see Annex B).

2.2 Terrain Information

In addition to vehicle characteristics, the NRMM requires much terrain information before providing meaningful predictions of vehicle performance. For NRMM purposes, large areas of complex terrain (transects) are simplified by dividing them into many small areas which are essentially uniform in terms of physical characteristics (see Figure 1). These finite areas of terrain are referred to as terrain units. Terrain units are described by 22 independent terrain characteristics such as slope, soil type, seasonal soil strengths, ground roughness, and vegetation stem size and spacing. In like fashion, long stretches of road are divided into road segments which are described by nine independent characteristics, some of which are the same as for terrain units (i.e. ground roughness and slope). Examples of other road characteristics are curvature and surface condition. Also specified is the amount of off-road area or on-road distance associated with each homogeneous unit (see Annex C for a list of all terrain and road characteristics). With terrain described in this way, NRMM mobility predictions for large areas of terrain are achieved by providing speed predictions for numerous terrain units and road segments.

Upon initiation of this task, one set of data for on and off-road terrain from the Federal Republic of Germany was available for use. In the interim, new data became available for an area of Canadian terrain located within CFB Petawawa. Mobility predictions are provided for both areas. Annex C provides a summary of the distribution of terrain features for the FRG and CFB Petawawa off-road terrain areas.

3.0 RESULTS AND DISCUSSION

An assessment of the vehicle data acquisition experience and a discussion of NRMM modelling results are reported below.

3.1 Acquisition of Vehicular Data

As noted earlier, LETE was tasked to measure a number of items listed at Annex A. With the exception of pitch-mass-moment of inertia, LETE was able to respond to the task of measuring vehicle characteristics with existing equipment although, in several instances, unfamiliar procedures were involved. The gross vehicle weight as well as the weight of each axle, when the vehicle is loaded to gross vehicle weight, were easily measured on the LETE weigh scale. The weight of the unsprung mass was determined by disassembling the axles and by summing the entire weight of totally unsprung components (i.e., tires, drums, etc.) and one half of the weight of partially sprung components (i.e., one end fixed to the sprung mass such as springs, shocks, axle, shafts, etc.). The weight of the sprung mass was then easily determined from the difference of the unsprung mass and the gross vehicle weight [2].

The weight supported by the tires at fording depth was determined by suspending the vehicle by a single cable and lowering it into the LETE swim tank to the rated fording depth. The load supported by each tire was subsequently calculated from the cable tension by applying ratios of tire weight to gross vehicle weight (measured while the vehicle is not fording) for each of the four wheel locations (see Annex D).

The centers of gravity for the vehicle at gross vehicle weight, at curb weight, and for the sprung mass were determined in each case by suspending the vehicle in three different fore/aft inclinations. The center of gravity location was then determined by sighting a vertical line from the suspension point down to the vehicle for each inclination. The resulting intersection of lines on the vehicle body located the center of gravity.

The aerodynamic drag coefficient was measured at the National Research Council wind tunnel facility for a range of wind speeds, and an average value was calculated (see Annex E). The hydrodynamic drag coefficient was determined by LETE using a method developed by ORAE.

The procedure involved rolling the vehicle down a known incline from a predetermined height into a measured depth of water. The hydrodynamic drag coefficient was calculated from the original potential energy and the total distance travelled in the water.

The pitch-mass-moment of inertia was measured by the University of Michigan Transport Research Institute (UMTRI) by the pendulum method, in which the vehicle is suspended by cables and made to oscillate like a simple pendulum. Originally, this measurement was to be made by LETE. However, errors which are often induced by the friction in the pivot joint of all but the most carefully constructed assemblies, compounded by errors in the length of the pivot arm which are further magnified in parallel axis theorem calculations, often result in grossly inaccurate results. A considerable amount of time was spent by LETE engineers investigating alternative means of measuring this quantity. However, after making several attempts to construct jigs to permit proper measurement, it was concluded that these methods were not possible within the time frame and cost constraints of this task.

Consequently, UMTRI was contracted to measure the pitch moment of inertia. The measurement was performed in less than a day after a vehicle was delivered to UMTRI. The vehicle's gross weight for this test was 3050 lb, and the measured moment of inertia was 13240 lb-in-sec^2. Hence the radius of gyration is 41.0 in or 1.04 m.

However, it should be noted that the value of the pitch-mass-moment of inertia actually measured by UMTRI was for the entire vehicle mass whereas the desired value, to be used in vehicle dynamic simulations, is for the sprung vehicle mass only. Therefore, it was necessary to adjust the value of the pitch-mass-moment of inertia to reflect the deletion of the unsprung mass. This was accomplished by assuming that the above value of radius of gyration was also valid for the sprung mass.

Power train and suspension information were received within two calendar months of the date they were requested from the vehicle manufacturer, Bombardier (see Annex F). The information received was readily changed into NRMM compatible form.

Measurement of the required geometrical data took approximately two person-days of effort. The entire complement of required vehicle characteristics is assembled in Annex B in the NRMM Input Data Package.

3.2 NRMM Mobility Predictions

The NRMM quantifies mobility by providing predictions of speed-made-good for a vehicle in road or off-road operation. Speed-made-good between two points is defined as the straight line distance between the points divided by the total travel time, irrespective of the path chosen. A speed-made-good prediction for a terrain unit constitutes the basic output of NRMM. Speed predictions for all of the terrain units of the FRG and CFB Petawawa transects are listed in Annex G.

The baseline performance of the Iltis may be represented by graphs of speed versus cumulative percent of area. Figures 2 and 3 are graphs of speed versus cumulative percent of area for FRG and CFB Petawawa off-road terrain, respectively. These curves provide graphical summaries of the speed predictions for all terrain units of each transect. They give an easy means of obtaining an average predicted speed for any percentage of the total area of a transect. As the cumulative percentage of the total area of the transect increases, it can be seen that the average achievable speed decreases. For example, in Figure 2 the Iltis is able to achieve a speed-made-good of approximately 22 kilometers per hour over 50 percent of the terrain. However, the speed-made-good value for 100 percent of this terrain decreases to approximately half that value. Such curves also provide a very clear indication of the no-go percent of area; in other words, the percentage of the area of the transect where the vehicle will have no mobility. For example, this value is approximately 75 percent of the total area of the Petawawa transect, Figure 3. Figure 4 is a similar graph for the three types of road surfaces found in the FRG transect.

In situations where the graphic representation is undesirable, the speed corresponding to a specific cumulative percent of area value is an alternative means of representing the baseline performance of a vehicle. The selected percent of area value is generally derived from the mobility level expected of a vehicle fulfilling a specified role. For example, established mobility levels used by the US Army are tactical high mobility, tactical standard mobility, and tactical support mobility. The mobility level dictates the percentage of off-road/on-road terrain on which the vehicle must be mobile (see Table 1). It follows that the speed corresponding to a specified percentage of off-road terrain (extracted from a graph such as Figure 2) is a single number which represents the baseline mobility of the vehicle on that terrain. The average speed corresponding to 80 percent of the cumulative area (V_{80}) of FRG off-road terrain is 20 kilometers per hour. This value represents a predicted average speed in the best (most easily trafficable) 80 percent of the terrain. Results of this form for on-road and off-road terrain (given a tactical standard mobility level as defined in Table 1) for the Iltis are summarized in Table 4.

In the case where, for a given area of terrain, both road and off-road information are available, another single number called the mobility rating speed may be used to represent the vehicle baseline. The mobility rating speed (V_{MRS}) combines V_x values (where V_x is the average speed corresponding to x% of the cumulative area) from trails, primary and secondary roads, and off-road terrain into a more global measure of a vehicle's mobility. The mobility rating speed is calculated using

$$V_{MRS} = \frac{100}{\frac{\%\ \text{off-road}}{V_x} + \frac{\%\ \text{trails}}{V_x} + \frac{\%\ \text{secondary roads}}{V_x} + \frac{\%\ \text{primary}}{V_x} + TP}$$

where the V_x speeds are taken from applicable speed versus cumulative percent of area curves. The percent off-road, percent trails, etc., weighting factors are defined by the expected mission profile of the vehicle (see Table 2). For the Iltis in a tactical support role, for example, a typical mission profile specifies 5 percent of all distance is travelled off-road, 10 percent on trails, 55 percent on secondary roads, and 30 percent on primary roads.

While negotiating areas of off-road terrain, linear features such as streams, ditches, and roads are often encountered. In order to achieve a comphrensive mobility prediction, which is the aim of the mobility rating speed, some indication of the difficulty that a vehicle experiences when negotiating linear features must be included. The NRMM does not currently have, as a support module, an analytical model to predict retardation of vehicle progress when crossing such features. Therefore, this is accounted for empirically in the above equation by specifying a time penalty, TP.

Several factors influence the value of TP. The frequency of encountering linear features may be quite different from one geographical area to another. Also, the problems of ingress and egress depend, to a large extent, on the soil strength and soil moisture content of the banks or sides of the feature. Therefore, time penalties change for different weather scenarios (soil moisture content) and for different geographical areas as shown in Table 3.

For the example of an Iltis 4X4 in a tactical support role (V_x shown in Table 4) on FRG terrain and assuming a dry weather scenario, the mobility rating speed is calculated to be 40 kilometers per hour.

4.0 CONCLUSIONS

Conclusions regarding the process of obtaining vehicle characteristics are summarized as follows:

1) geometrical vehicle data were easily measured in a matter of days,

2) power train and suspension information was readily obtained from the vehicle manufacturer,

3) the majority of vehicle characteristics requested from LETE were measured with existing equipment using established techniques,

4) several unfamiliar (to LETE) characteristics were determined using existing equipment in new ways and by developing novel experimental procedures,

5) the pitch-mass-moment of inertia of the sprung mass was the most difficult characteristic to determine. LETE did not have and was not able to construct (within the time and financial constraints of this task) the facilities to accurately measure this value. A value for the pitch-mass-moment of inertia of the entire vehicle mass was obtained by contracting the University of Michigan Transport Research Institute. However, the corresponding value for the sprung vehicle mass is unavailable. An approximated value has been used in this report.

Concerning NRMM mobility predictions, the baseline mobility of a vehicle can be represented in several ways:

1) by graphs or tables of average speed versus cumulative percent of area, or

2) by mobility rating speeds (V_{MRS}).

The mobility rating speed is the most concise representation of overall performance. A set of graphs of speed versus cumulative percent of area for all surface categories (trails, off-road, etc) contains the most information regarding baseline performance. Both are useful ways of representing the baseline performance. Accordingly, the baseline performance of the Iltis 4X4 is represented by Figures 2 through 4 and by a mobility rating speed for FRG terrain (scenario = dry) of 40 kilometers per hour.

REFERENCES

1. Haley, P.W., Jurkat, M.P., Brady, P.M. Jr., "NATO Reference Mobility Model, Edition I, User's Guide. Volume I". Technical Report No. 12503. U.S. Army Tank Automotive Research and Development Command. October 1979.

2. Isnor, G., "Iltis Input Data for VEHDYN II". Personal communication. November 1987.

3. Haley, P.W., "Parameters for Mobility Rating Speed Equation". Personal communication. October 1985.

MOBILITY LEVEL	PERCENTAGE OF TOTAL DISTANCE/AREA CHALLENGED			
	PRIMARY ROADS	SECONDARY ROADS	TRAILS	OFF-ROAD
Tactical High	100	100	100	90
Tactical Standard	100	100	90	80
Tactical Support	100	100	50	50

Table 1

Percentage of Total Distance/Area Challenged for Various Mobility Levels Within Each Surface Type on FRG Terrain

MOBILITY LEVEL	MISSION PROFILE - PERCENTAGE OF TOTAL DISTANCE/AREA TRAVELLED IN EACH SURFACE TYPE			
	PRIMARY ROADS	SECONDARY ROADS	TRAILS	OFF-ROAD
Tactical High	10	30	10	50
Tactical Standard	20	50	15	15
Tactical Support	30	55	10	5

Table 2

Percentage of Total Distance/Area Travelled on Different Surface Types for Specified Mobility Levels on FRG Terrain

SOIL CONDITION	TIME PENALTY	
	FRG	MID-EAST
DRY	.101	.025
WET	.109	.032

Table 3

Scenario Dependent Time Penalties for Off-Road Terrain

V_{100} Primary Roads (km/hr)	V_{100} Secondary Roads (km/hr)	V_{90} Trails (km/hr)	V_{80} Off-Road (km/hr)
68	52	15	20

Table 4

Selected Mobility Speeds (V_x) for the Iltis 4X4 Assuming a Tactical Support Mobility Level on FRG Roads and Off-Road Terrain

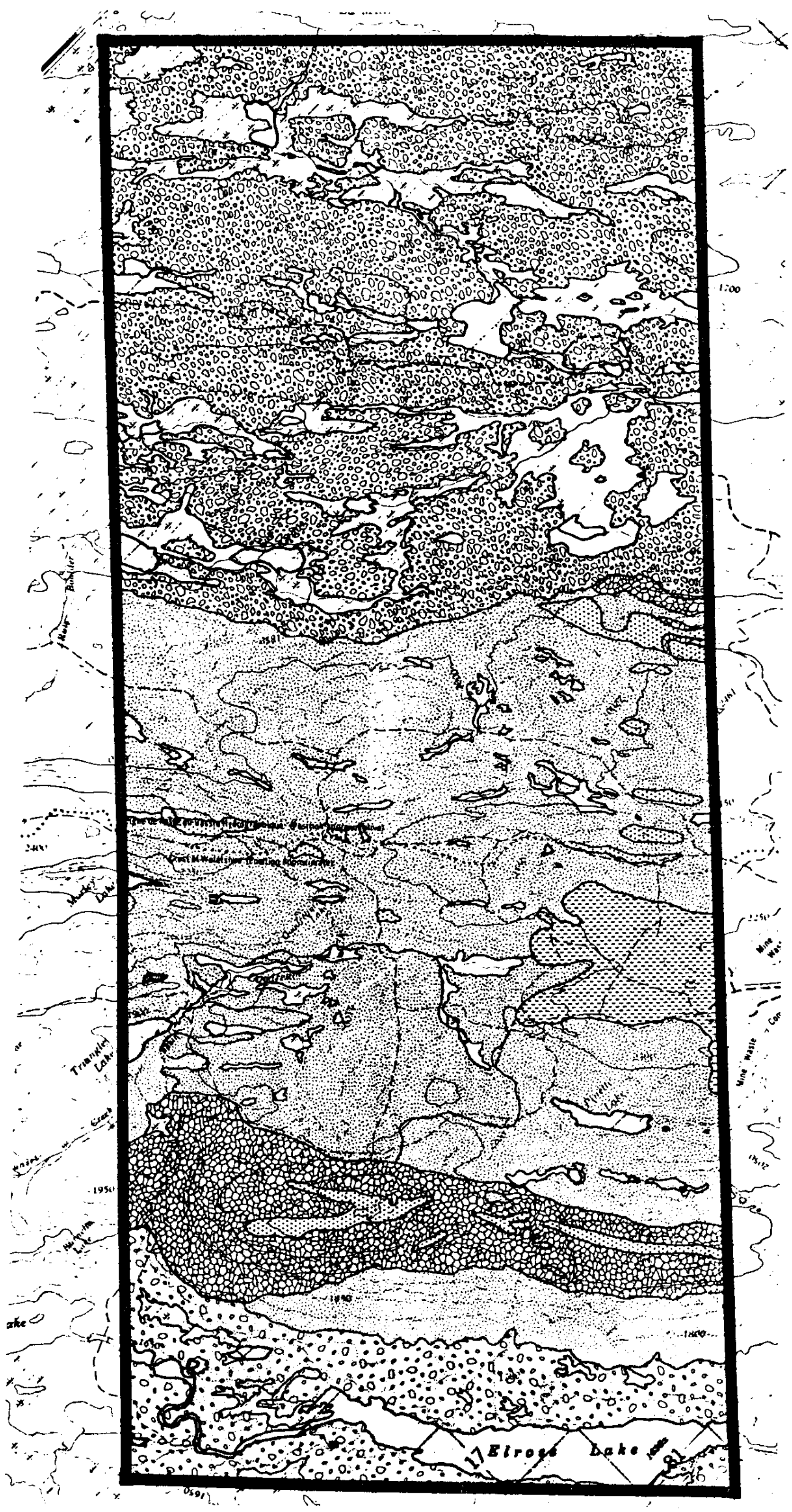


Figure 1. Partial map sheet with terrain unit map superimposed.

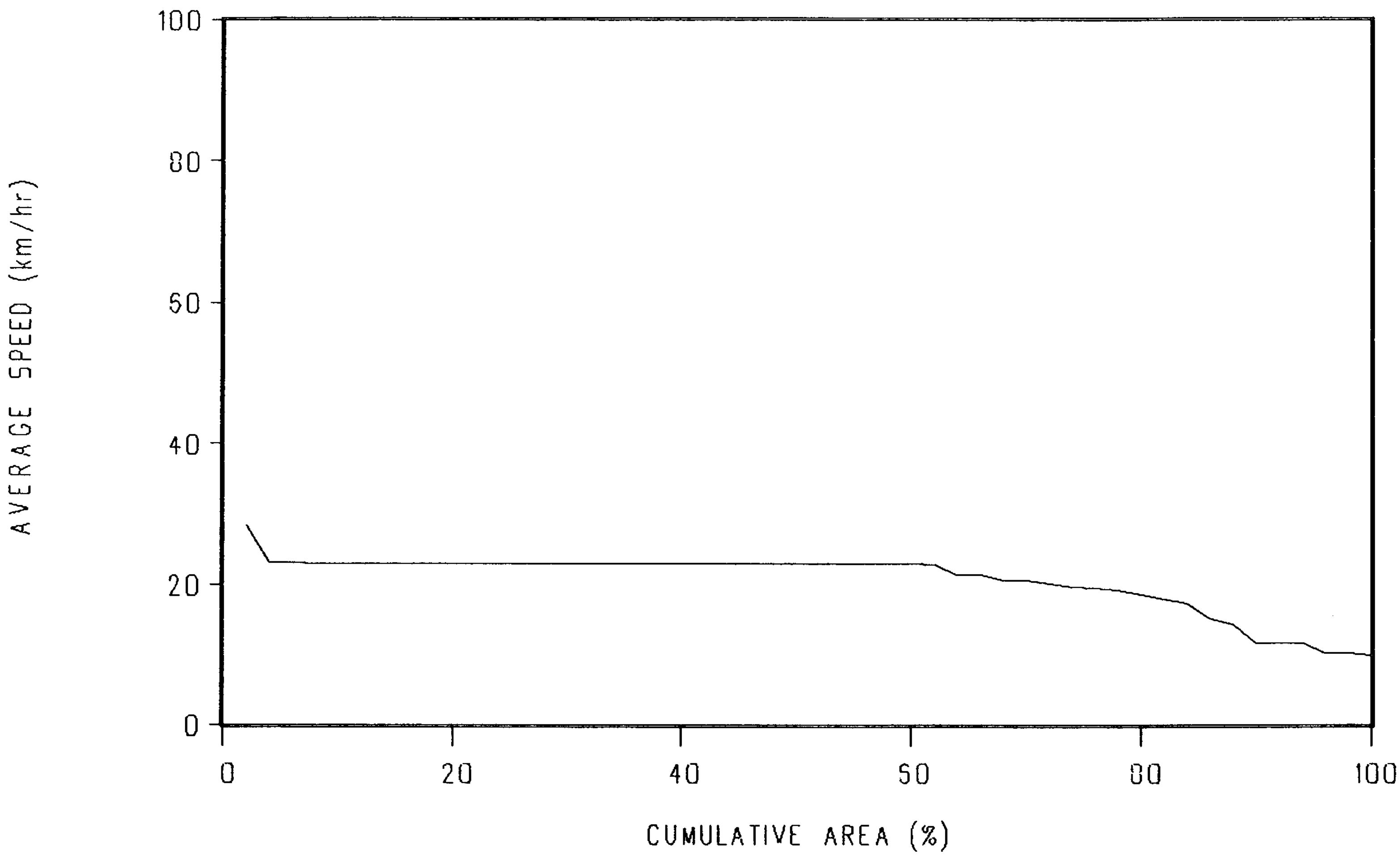


FIGURE 2. GRAPH OF CUMULATIVE AREA VERSUS AVERAGE SPEED FOR THE ILTIS 4X4 TRUCK ON FRG OFF-ROAD TERRAIN.

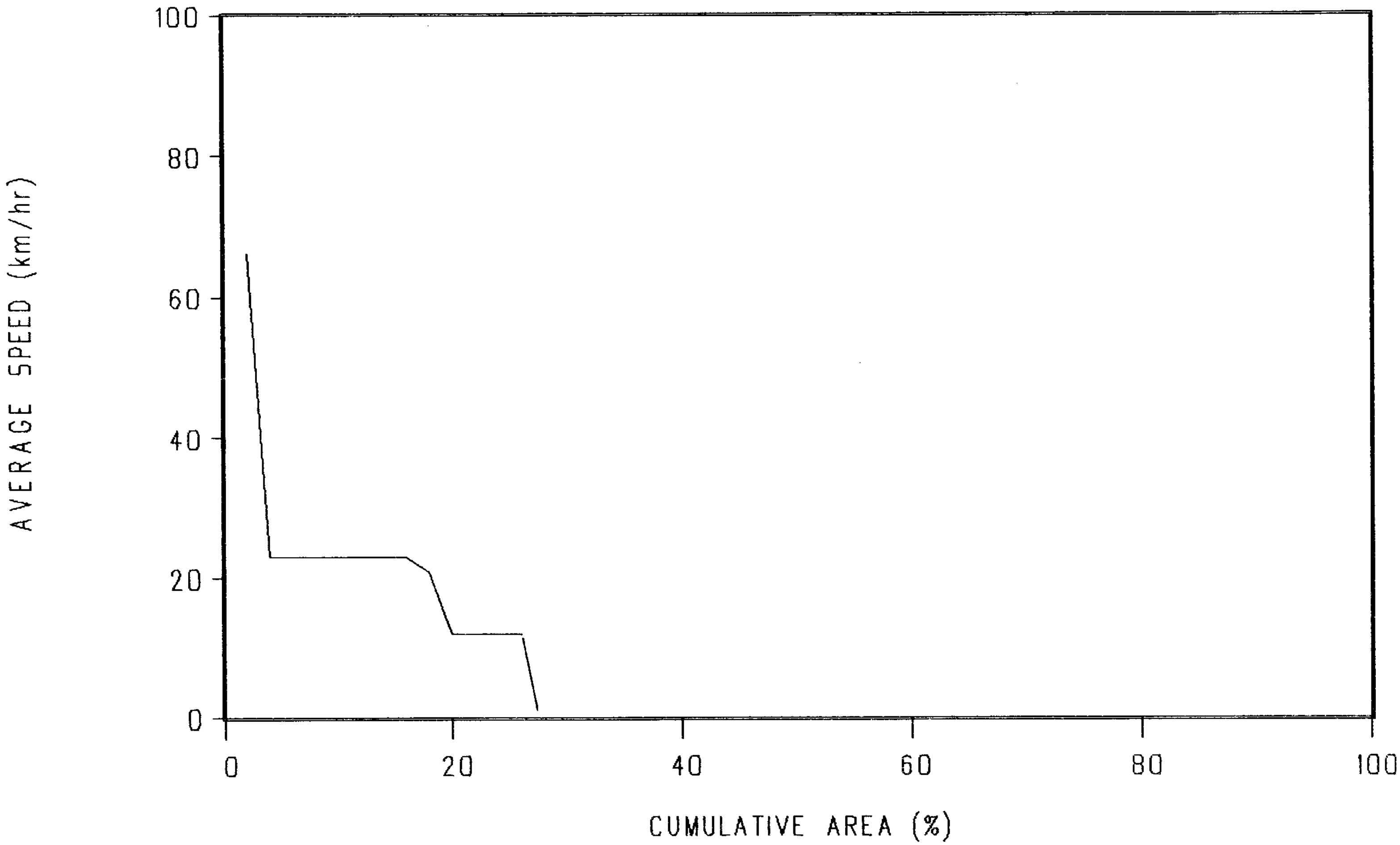


FIGURE 3. GRAPH OF CUMULATIVE AREA VERSUS AVERAGE SPEED FOR THE ILTIS 4X4 TRUCK ON CFB PETAWAWA OFF-ROAD TERRAIN.

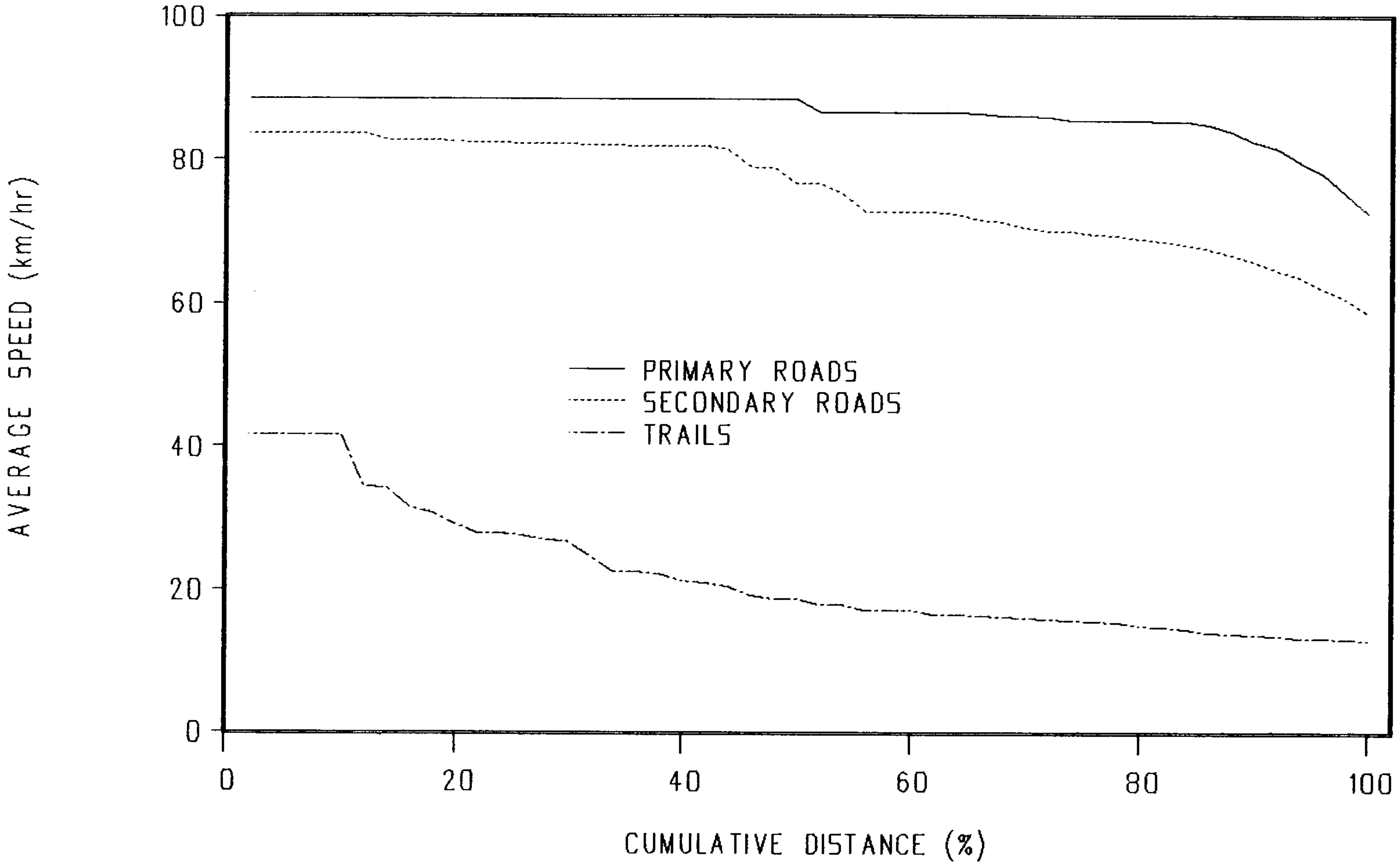


FIGURE 4. GRAPH OF CUMULATIVE DISTANCE VERSUS AVERAGE SPEED FOR THE ILTIS 4X4 TRUCK ON FRG ROADS AND TRAILS.

ANNEX A

VEHICLE CHARACTERISTICS REQUESTED FROM LETE

The following list itemizes all of the Iltis vehicle characteristics which LETE was tasked to provide:

1. Gross vehicle weight.
2. Weight of each axle of vehicle when laden at gross vehicle weight.
3. Weight of sprung mass.
4. Weight of unsprung mass for each axle.
5. Weight supported by tires at fording depth.
6. Center of gravity of vehicle at gross vehicle weight.
7. Center of gravity of vehicle at curb weight.
8. Center of gravity of sprung mass of vehicle.
9. Aerodynamic drag coefficient.
10. Hydrodynamic drag coefficient.
11. Pitch mass moment of inertia of sprung mass.
12. Maximum driver's seat acceleration as the vehicle negotiates obstacles of various sizes (optional).
13. Average absorbed power at driver's seat as the vehicle negotiates random terrain of various roughness values (optional).

ANNEX B

NRMM INPUT DATA PACKAGE C/W ILTIS VEHICLE CHARACTERISTICS

NRMM DATA SHEETS FOR WHEELED FIRST UNIT

PROJECT ILTIS

PROJECT ILTIS
VEHICLE ID

DATE 08/12/86
INITIALS

1.0

1.0 - IDENTIFICATION

Vehicle Identification ILTIS 4X4-.5 ton jeep

Gross weight of entire vehicle (kg)	1755	GVW
Pitch mass moment of inertia about the CG of vehicle sprung mass (kg - m^2)	1170	VMMI
Payload weight (kg)	348	DELTW1
Combined weight of the driver and the driver's seat (Driver = 80 kg, DRVWGT = 0 if no seat suspension exists)	0	DRVWGT

Tires 6.50 R 16 cross country radial tires

Drive Train

Engine VW 049 : 4 cyl 4 stroke gasoline engine

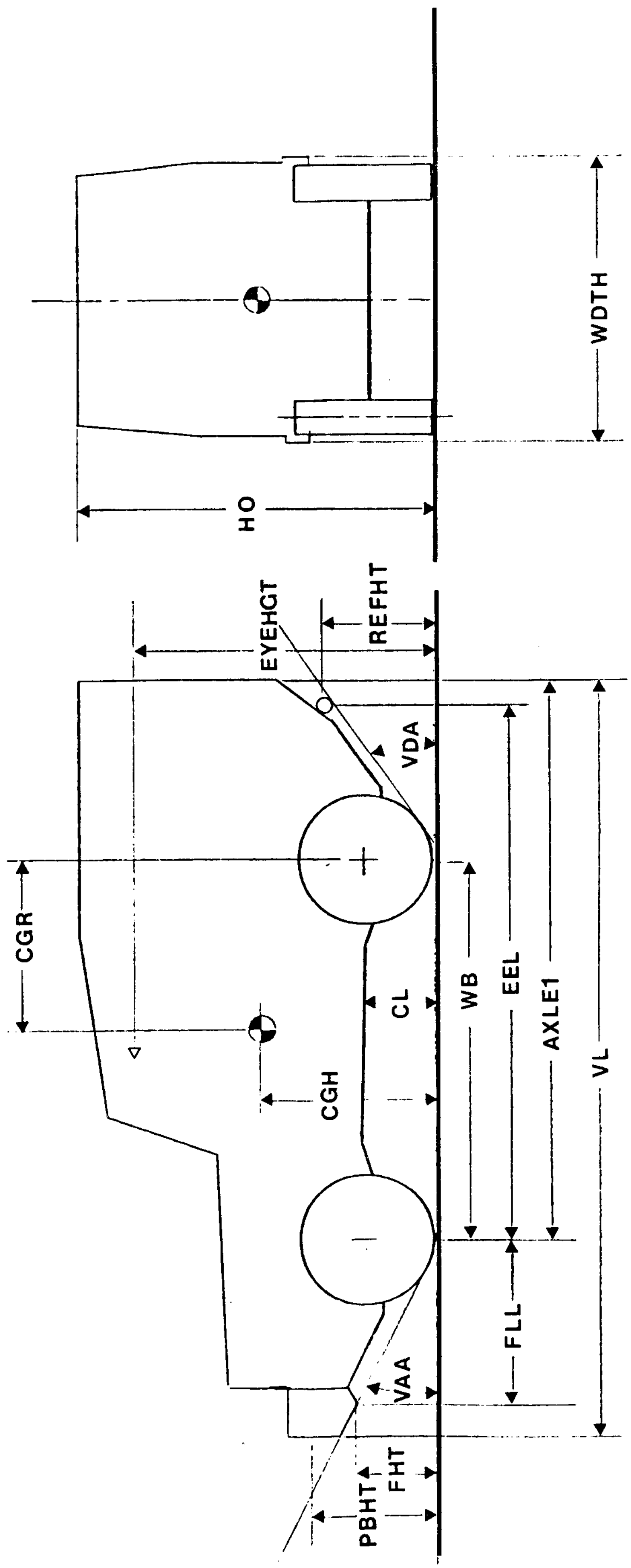
Transmission Manual gear box with integrated differential, dry single plate clutch

PROJECT ILTIS
VEHICLE ID

DATE 08/12/86
INITIALS

2.0 - GEOMETRICAL VEHICLE CHARACTERISTICS

		FIRST UNIT
Vehicle/Unit length (mm)	VL	3955
Vehicle/Unit height (mm)	HO	1836
Vehicle/Unit width (mm)	WDTH	1519
Front pushbar height (mm)	PBHT	800
Height of front hitch above ground (mm)	FHT	541
Height of rear hitch above ground (mm)	REFHT	490
Front axle to end of vehicle (mm)	AXLE1	3066
Front hitch to front axle (mm)	FLL	760
Front axle to rear hitch (mm)	EEL	2771
Wheel base (mm)	WB	2019
Minimum chassis clearance (mm)	CL	330
Approach angle (deg)	VAA	41.5°
Departure angle (deg)	VDA	32.5°
Horizontal coordinate of payload CG with respect to rear hitch (mm)	DEE1	0
Vertical coordinate of payload CG with respect to ground (mm)	ZEE1	0
Minimum width between running gear elements (mm)	WI	1064
Distance from front of first running gear assembly to rear of last (mm)	TL	2756


WDTH
HO
EYEHGT
REFHT
VDA
CGR
CL
WB
EEL
AXLE1
VL
CGH
FLL
VAA
FHT
PBHT

PROJECT ILTIS
VEHICLE ID

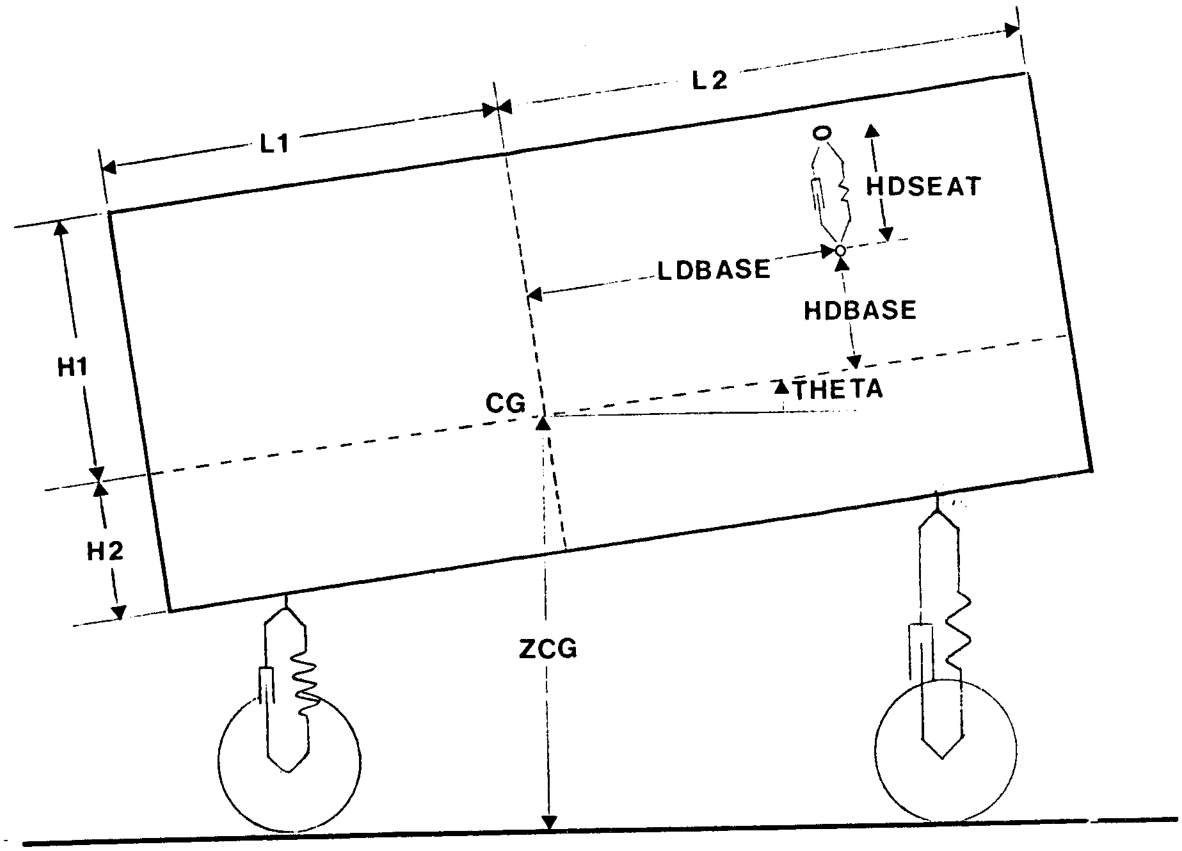
DATE 08/12/86
INITIALS

2.1

2.1 - DRIVER'S SEAT AND CG DIMENSIONS

		FIRST UNIT
Longitudinal distance from CG to base of driver's seat	LDBASE	186
Vertical distance from CG to the base of driver's seat	HDBASE	143
Vertical distance from the base of the driver's seat to driver's seat	HDSEAT	0
Number of the spring force deflection table to be used for driver's seat dynamics	ISDRV	0
Number of the damper force velocity table to be used for driver's seat dynamics	IDDRV	0
Driver's eye height	EYEHGT	1334
Front axle to driver station		0
Rear axle to CG	CGR	908
Height of CG above ground surface	*CGH	673
Vertical distance from bottom of vehicle's sprung mass to CG	H1	343
Vertical distance from CG to top of vehicle's sprung mass	H2	1164
Longitudinal distance from rear end of vehicle's sprung mass to CG	L1	1916
Longitudinal distance from the CG to the front end of vehicle's sprung mass	L2	2066
Sprung mass' angle with respect to and measured counterclockwise from horizontal	THETA	0
Lateral distance: center plane to CG	CGLAT	0

* CGH corresponds to CGZ1 and ZCG VMS use only


L1
L2
HDSEAT
LDBASE
HDBASE
H1
THETA
CG
H2
ZCG

PROJECT ILTIS
VEHICLE ID ____________

DATE 08/12/86
INITIALS ____________

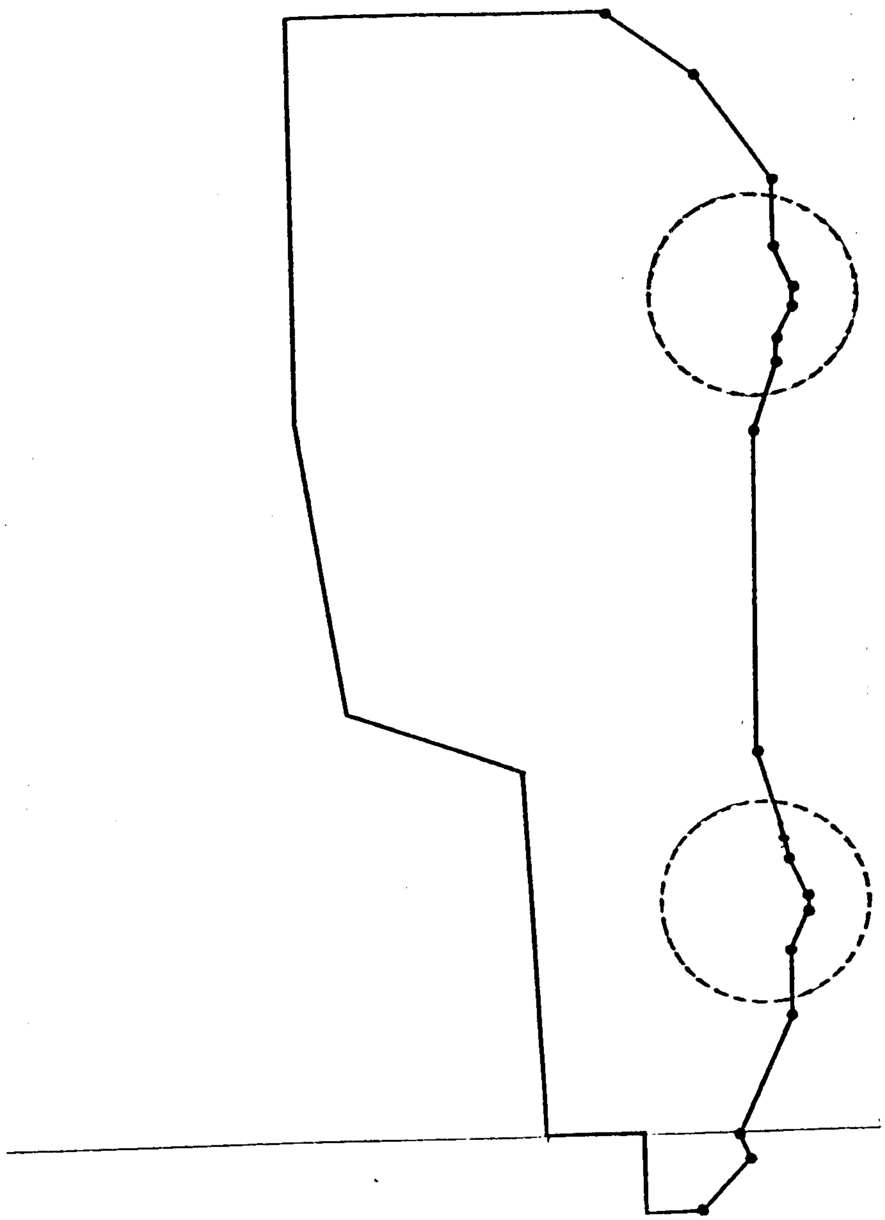
3.0 - BOTTOM PROFILE

Number of x-y pairs in first unit bottom profile [19] NPTSC1

All heights are measured in mm from the ground with vehicle at operating load and cross-country conditions.

FIRST UNIT I = 1, NPTSC1

I	X XCLC1 (I)	Y YCLC1 (I)	I	X XCLC1 (I)	Y YCLC1 (I)
1	3725	800	13	783	205
2	3520	542	14	723	205
3	3160	270	15	600	270
4	2923	275	16	383	270
5	2801	205	17	0	452
6	2739	205	18	- 92	407
7	2617	255	19	-257	572
8	2550	265	20		
9	2320	350	21		
10	1263	360	22		
11	1023	285	23		
12	906	270	24		



PROJECT ILTIS
VEHICLE ID ____________

DATE 08/12/86
INITIALS ____________

4.0

4.0 - HIGHWAY CHARACTERISTICS

Aerodynamic drag coefficient	0.537	ACD
Projected frontal area (m^2)	2.53	PFA
Cornering stiffness of tires (N/deg)	534	AVGC
Hydrodynamic drag coefficient	1.2	CD

- MOBILITY ASSIST SYSTEM

Pushbar/bumper capacity (N)	14200	PBF

Winch mounted? YES	
NO	√

If YES:

Identification/description ____________

Capacity (N)		WC

PROJECT ILTIS
VEHICLE ID

DATE 08/12/86
INITIALS

5.0 - RUNNING GEAR

Total number of axles	NAMBLY	2
Total number of suspension assemblies	NSUSP	2
Maximum braking coefficient	XBRCOF	0.7

Axle number	I	1	2	3	4
Suspension assembly number		1	2		
Operating load on axle (N)	*WGHT(I)	7428	9786		
Steered (1) or unsteered (0) axle		1	0		
Powered (1) or unpowered (0) axle	*IP(I)	1	1		
Braked (1) or unbraked (0) axle	*IB(I)	1	1		
Number of tires on axle	NWHL(I)	2	2		
Singles (0) or duals (1)	ID(I)	0	0		
Chains ? Yes (1) or No (0)	NCHAIN(I)	0	0		
Wheel track (mm)	WT(I)	1230	1260		
Ground clearance under axles (mm)	CLRMIN(I)	250	9.8		
Lateral clearance between inner tires (mm)	WTE(I)	1064	1095		
Undeflected radius of the wheel (mm)	*R(I)	370	370		
Weight of the wheel assembly (N)	W(I)	732	732		
Drive wheel (1) or towed wheel (0)	IDRIVE(I)	1	1		

*WGHT(I) corresponds to FUNDWL and EQUILF
*R(I) corresponds to DIAW and EFFRAD
*IP(I) and IB(I) correspond to IIP(I) and IIB(I)

VMS use only

PROJECT ILTIS
VEHICLE ID

DATE 08/12/86
INITIALS

5.1 - TIRE CHARACTERISTICS

Axle number	I	1	2	3	4
Bias (1) or Radial (0) tires	ICONST(I)	0	0		
Tire ply rating or load range	TPLY(I)	10	10		
Undeflected tire section width (mm)	SECTW(I)	165	165		
Undeflected tire section height (mm)	SECTH(I)	140	140		
Tire nominal revolutions/km	REVM(I)	450	450		
Central inflation system (yes/no)					
Tire highway inflation pressure (Kpa)	*TPSI(I,3)	500	500		
Deflection under load and highway inflation (mm)	*DFLCT(I,3)	10	13.5		
Max allowable speed at highway inflation (km/h)					
Tire sand inflation pressure (Kpa)	TPSI(I,2)	315	315		
Deflection under load and sand inflation (mm)	DFLCT(I,2)	13.5	18		
Max allowable speed at sand inflation (km/h)					
Tire cross-country inflation pressure (Kpa)	TPSI(I,1)	390	390		
Deflection under load and cross-country inflation pressure (mm)	DFLCT(I,1)	12	16		
Max allowable speed at cross-country inflation pressure (km/h)					
Rim diameter	RDIAM(I)	406	406		
Rim width	RIMW(I)	114	114		
Rim flange height					
Force at tire deflection for ride analysis					

*TPSI(I,J) and DFLCT(I,J) correspond to ZFORCE(I) and DEFL(I) respectively for VEHDYN. VMS use only

PROJECT ILTIS
VEHICLE ID ____

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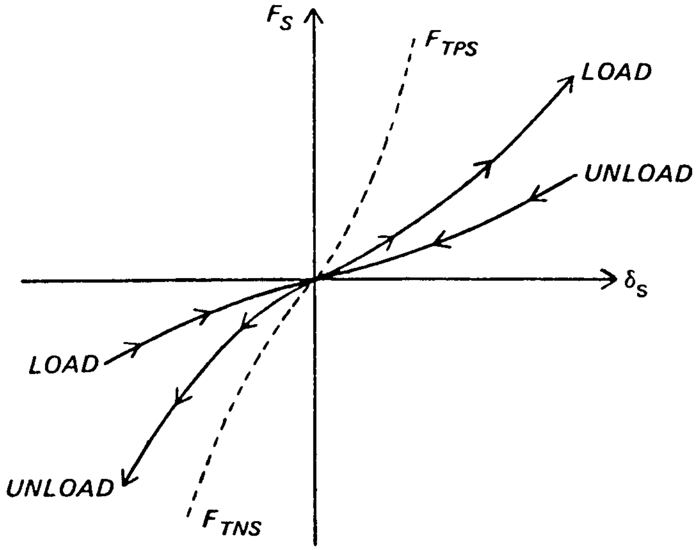
6.0 - SUSPENSION FORCE CHARACTERISTICS

Number of unique Spring Force - Deflection Tables	1	NSTABL
Number of unique Damper Force - Velocity Tables	1	NDTABL

TABLE NUMBER J = 1, NSTABL or J = 1, NDTABL

J = 1 J = 1

	Spring Force Deflection Table		Damper Force Velocity Table	
Number of data points in loading portion of the Jth table	9	NSLOAD(J)	11	NDLOAD(J)
Number of data points in unloading portion of the Jth table	0	NSUNLD(J)	0	NDUNLD(J)
Coefficient A1/A3 used for the Jth table	0	ATSPOS(J)	0	ATDPOS(J)
Exponential coefficient B1/B3 used for the Jth table	0	BTSPOS(J)	0	BTDPOS(J)
Coefficient A2/A4 used for Jth table	0	ATSNEG(J)	0	ATDNEG(J)
Exponential coefficient B2/B4 used for Jth table	0	BTSNEG(J)	0	BTDNEG(J)
Displacement of rebound bump stop from Jth table (mm)	0	STKNEG(J)		
Displacement of jounce bump stop from Jth table (mm)	172	STKPOS(J)		

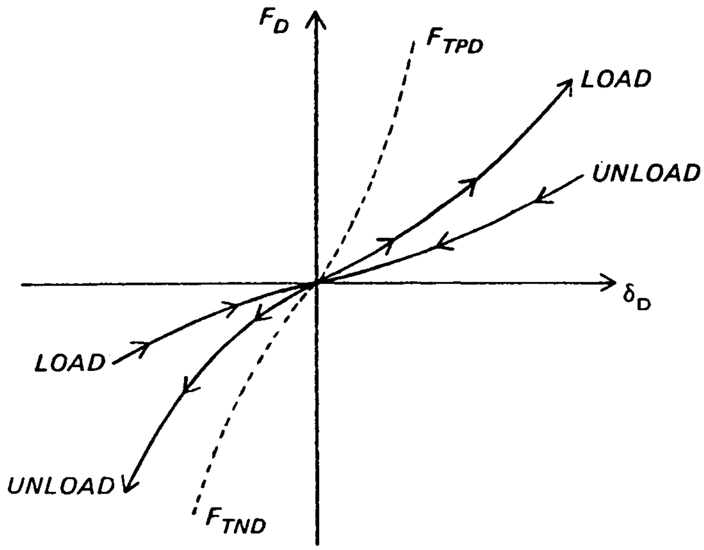


TRANSITION CURVES

$F_{TPS} = A1\,(e^{B1 \cdot \delta_S} - 1),\ \delta_S > 0$

$F_{TNS} = A2(1 - e^{-B2 \cdot \delta_S}),\ \delta_S < 0$

NON-LINEAR HYSTERETIC SPRING-FORCE DEFLECTION MODEL



TRANSITION CURVES

$F_{TPD} = A3(e^{B3 \cdot \dot{\delta}_D} - 1),\ \dot{\delta}_D > 0$

$F_{TND} = A4(1 - e^{-B4 \cdot \dot{\delta}_D}),\ \dot{\delta}_D < 0$

NON-LINEAR HYSTERETIC DAMPER-FORCE VELOCITY MODEL

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6.1 - SUSPENSION SPRING/DAMPER TABLES

SPRING FORCE - DEFLECTION

J = 1

I = 1, NSLOAD

NSLOAD	DEFL. (mm) DELSLD (I,J)	FORCE LOAD (N) FORSLD (I,J)
1	-25	-66700
2	0	0
3	25	1356
4	50	2712
5	75	4067
6	100	5423
7	125	6779
8	150	8135
9	175	74858
10		
11		
12		
13		
14		
15		
16		

I = 1, NSUNLD

NSUNLD	DEFL. (mm) DELSUN (I,J)	FORCE UNLOAD (N) FORSUN (I,J)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

DAMPER FORCE - VELOCITY

J = 1

I = 1, NDLOAD

NDLOAD	VEL. (m/s) DDOTLD (I,J)	FORCE LOAD (N) FORDLD (I,J)
1	-2.5	-1690
2	- .34	-1690
3	- .22	-1550
4	- .11	-1326
5	- .04	- 517
6	0	0
7	.04	219
8	.11	517
9	.22	687
10	.34	802
11	2.5	802
12		
13		
14		
15		
16		

I = 1, NDUNLD

NDUNLD	VEL. (m/s) DDOTUN (I,J)	FORCE UNLOAD (N) FORDUN (I,J)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

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6.2 - SUSPENSION DMC TABLES

Number of unique DMC - deflection tables for positive velocities	0	NDMTBP
Number of unique DMC - deflection tables for negative velocities	0	NDMTBN
Number of data points for positive velocities in Jth DMC table		NDMODP(J)
Number of data points for negative velocities in Jth DMC table		NDMODN(J)

DMC - DEFLECTION/POSITIVE VELOCITY J = ________

I = 1, NDMODP

NDMODP	DEFL. (mm) DELMDP (I,J)	DMC CFMODP (I,J)	NDMODP	DEFL. (mm) DELMDP (I,J)	DMC CFMODP (I,J)
1			9		
2			10		
3			11		
4			12		
5			13		
6			14		
7			15		
8			16		

DMC - DEFLECTION/NEGATIVE VELOCITY J = ________

I = 1, NDMODN

NDMODN	DEFL. (mm) DELMDN (I,J)	DMC CFMODN (I,J)	NDMODN	DEFL. (mm) DELMDN (I,J)	DMC CFMODN (I,J)
1			9		
2			10		
3			11		
4			12		
5			13		
6			14		
7			15		
8			16		

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7.0 - GENERAL SUSPENSION CHARACTERISTICS AND UNSPRUNG SUSPENSION

Number of Unsprung suspensions	NU	0
Number of Independent suspensions	NI	2
Number of Walking Beam suspensions	NW	0
Number of Bogie suspensions	NB	0

Suspension Assembly number	I	1	2	3	4
Horizontal Coordinate of suspension with respect to hitch (mm)	ELL(I)	2772	753		
Tandem Axle? Yes (1) or No (0).	IT(I)	0	0		
Spacing between 1st and last nonsteered axle in multiple set (mm)	AXLSP(I)	2020	0		

Unsprung Suspension

Unsprung suspension number	I				
Wheel number	IU(I)				
Height of wheel center above ground (mm)	ZWHL(IU(I))				
Longitudinal length from CG to wheel center (mm)	LWHL(IU(I))				

* SFLAG(I) to be determined VMS use only

PROJECT ILTIS
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INITIALS

7.1 - INDEPENDENT AND WALKING BEAM SUSPENSION

Independent Suspension	I	1	2		
Wheel number	II(I)	1	2		
Number of the spring force deflection table to be used	IINSTB(I)	1	1		
Number of the damper force velocity table to be used	IINDTB(I)	1	1		
Number of the DMC table for positive velocities to be used	INDMTP(I)	0	0		
Number of the DMC table for negative velocities to be used	INDMTN(I)	0	0		
Height of wheel center above ground (mm)	ZWHL(II(I))	358	354		
Longitudinal length from CG to wheel center (mm)	LWHL(II(I))	1111	-908		

Walking Beam Suspension

Walking beam suspension number	K				
Number of the spring force deflection table to be used	IWBSTB(K)				
Number of the damper force velocity table to be used	IWBDTB(K)				
Number of the DMC table for positive velocities to be used	IWDMTP(K)				
Number of the DMC table for negative velocities to be used	IWDMTN(K)				
Longitudinal distance from CG to the pivot point (mm)	LW(K)				
Mass moment of inertia (kg • m^2)	WBINRT(K)				
Beams frictional damping coefficient for resisting rotation	WBRDMP(K)				
Minimum allowable angle between beam and line from pivot to suspension/frame	WBPHMN(K)				
Slope of the resisting moment vs. min. allowable angle curve	WBRSTP(K)				

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7.2 - WALKING BEAM SUSPENSION

Walking Beam (cont'd)

Number of the damper force table to be used with fore outboard damper	IWODTB(1,K)				
Number of the damper force table to be used with aft outboard damper	IWODTB(2,K)				
Number of the DMC table for pos. velocities used with fore outboard damper	IWOMTP(1,K)				
Number of the DMC table for pos. velocities used with aft outboard damper	IWOMTP(2,K)				
Number of the DMC table for neg. velocities used with fore outboard damper	IWOMTN(1,K)				
Number of the DMC table for neg. velocities used with aft outboard damper	IWOMTN(2,K)				
Longitudinal distance from CG to connection point of fore outboard damper to frame	LWDF(1,K)				
Longitudinal distance from CG to connection point of aft outboard damper to frame	LWDF(2,K)				
Longitudinal distance from CG to connection point of fore outboard damper to beam	LWBD(1,K)				
Longitudinal distance from CG to connection point of aft outboard damper to beam	LWBD(2,K)				
Number of the fore wheel	IW(1,K)				
Number of the aft wheel	IW(2,K)				
Height of wheel center above ground (mm)	ZWHL(IW(I,K))				
Longitudinal length from CG to wheel center (mm)	LWHL(IW(I,K))				

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INITIALS

7.3 - BOGIE SUSPENSION

Bogie

Description	Variable				
Bogie suspension number	J				
Longitudinal distance from CG to the pivot point of Bogie	LB(J)				
Height of the pivot point from bogie above ground surface	ZBGPIV(J)				
Orientation angle of bogie's beam with respect to horizontal	BGANGL(J)				
Mass moment of inertia of bogie's beam	BGINRT(J)				
Beams frictional damping coefficient for resisting rotation	BGRDMP(J)				
Minimum allowable angle between beams and line from pivot to suspension frame	BGPHMN(J)				
Slope of the resisting moment vs. minimum allowable angle curve	BGRSTP(J)				
Number of the spring force table to be used with fore outboard damper	IBSTB(1,J)				
Number of the spring force table to be used with aft outboard damper	IBSTB(2,J)				
Number of the damper force table to be used with fore outboard damper	IBDTB(1,J)				
Number of the damper force table to be used with aft outboard damper	IBDTB(2,J)				
Number of the DMC table for pos. velocities used with fore outboard damper	IBDMTP(1,J)				
Number of the DMC table for pos. velocities used with aft outboard damper	IBDMTP(2,J)				

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INITIALS

7.4 - BOGIE SUSPENSION

Bogie (cont'd)

Number of the DMC table for neg. velocities used with fore outboard damper	IBDMTN(1,J)				
Number of the DMC table for neg. velocities used with aft outboard damper	IBDMTN(2,J)				
Longitudinal distance from CG to connection point of fore outboard damper to beam	DLB(1,J)				
Longitudinal distance from CG to connection point of aft outboard damper to beam	DLB(2,J)				
Number of the fore wheel	IBB(1,J)				
Number of the aft wheel	IBB(2,J)				
Height of wheel center above ground (mm)	ZWHL(IBB(I,J))				
Longitudinal length from CG to wheel center (mm)	LWHL(IBB(I,J))				
Angular limit of travel front road wheel up	BALMU(I)				
Angular limit of travel front road wheel down	BALMD(I)				
Bogie swing arm width at suspension (mm)	BWIDTH(I)				

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8.0 - POWER TRAIN DESCRIPTION

Data supplied for:		
tractive force - speed relationship		IAPG = 2
power train characteristics	√	IAPG = 0
both		IAPG = 1

Engine Description: ______

Number of engines	1	NENG		
Number of cylinders/engine	4	NCYL		
Displacement/engine (L)	1.8	CID		
2-cycle diesel: YES		IDIESL = 2		
2-cycle diesel: NO	√	IDIESL = 1		
Maximum gross horsepower (kW)			at RPM	
Maximun gross torque (Nm)			at RPM	
Maximum net horsepower (kW)	55	HPNET	at RPM	5000
Maximum net torque (Nm)	135	QMAX	at RPM	2800
Torque converter present? YES		ITRAN = 1, ITVAR = 0		
Torque converter present? NO	√	ITRAN = 0, ITVAR = 1		

If YES: description/identification ______

Lock-up capability?		
YES		LOCKUP = 1
NO	√	LOCKUP = 0

Sheet 8.1 must be completed. Sheet 8.6 or sheets 8.2, 8.3, 8.4 and 8.5 must also be completed

8.1

PROJECT ILTIS
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8.1 - POWER TRAIN ENGINE CHARACTERISTICS

Number of pairs in engine torque relationship | 19 | IENGIN

Engine torque relationship - net as installed   ENGINE (I,J) J = 1, IENGIN

J	RPM (I = 1)	TORQUE (I = 2)
1	1000	100
2	1400	114
3	1600	119
4	2000	126
5	2400	130
6	2600	132
7	2800	133

J	RPM (I = 1)	TORQUE (I = 2)
8	3000	132
9	3200	130
10	3400	129
11	3600	126
12	3800	123
13	4000	121
14	4400	115

J	RPM (I = 1)	TORQUE (I = 2)
15	4600	112
16	5000	105
17	5400	96
18	5600	92
19	6000	83
20		
21		

Engine to transmission transfer gears present?

YES		ITCASE = 1
NO	√	ITCASE = 0

If YES: description/identification ______________________

Gear Ratio		:1 TCASE (1)
Efficiency		% TCASE (2)

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8.2 - POWER TRAIN TRANSMISSION CHARACTERISTICS
AUTOMATIC TRANSMISSION DESCRIPTION

Number of pairs in input RPM vs. speed ratio relationship	0	ICONV1
Number of pairs in torque ratio vs. speed ratio relationship	0	ICONV2
Input torque for input RPM vs. speed ratio relationship (Nm)		TQIND

CONV1 (I,J) Input RPM vs. Speed Ratio J = 1, ICONV1

J	RPM (I = 1)	SPEED RATIO (I = 2)	J	RPM (I = 1)	SPEED RATIO (I = 2)
1			10		
2			11		
3			12		
4			13		
5			14		
6			15		
7			16		
8			17		
9			18		

CONV2 (I,J) Torque Ratio vs. Speed Ratio J = 1, ICONV2

J	TORQUE (I = 1)	SPEED RATIO (I = 2)	J	TORQUE (I = 1)	SPEED RATIO (I = 2)
1			10		
2			11		
3			12		
4			13		
5			14		
6			15		
7			16		
8			17		
9			18		

STANDARD TRANSMISSION DESCRIPTION
Transmission description/identification

Number of gears 5

Gear number	1	2	3	4	5	6	7	8
Ratio	7.603	3.909	2.277	1.458	1.086			
Efficiency %	.95	.9	.9	.9	.9			

PROJECT ILTIS
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INITIALS ______

8.3 - POWER TRAIN FINAL DRIVE AND TRANSFER GEARS

Transmission to final drive transfer gears present? YES [ ] NO [√]

If YES: identification/description ______

Number of gears [ ]

Can gears be shifted while in motion? YES [ ] NO [ ]

Gear Number	1	2	3	4
Ratio				
Efficiency %				

Final drive description/identification ______

Locking differential? YES [√] LOCDIF = 1; NO [ ] LOCDIF = 0

Number of gears [1]

Can gear be shifted while in motion? YES [ ] NO [√]

Gear Number	1	2	3	4
Ratio	5.285			
Efficiency %	.95			

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8.4 - POWER TRAIN OVERALL GEAR RATIO COMBINATION
Overall Gear Ratio Combinations

Number of gear ratio combinations: 5 NGR

TRANS (I,J)

Gear Ratio Combination J	1	2	3	4	5	6	7	8	9
Combined Gear Ratio (I = 1)	40.18	20.66	12.03	7.71	5.74				
Combined Efficiency % (I = 2)	.9	.9	.9	.9	.9				

Gear Ratio Combination J	10	11	12	13	14	15	16	17	18
Combined Gear Ratio (I = 1)									
Combined Efficiency % (I = 2)									

Gear Ratio Combination J	19	20	21	22	23	24	25	26	27
Combined Gear Ratio (I = 1)									
Combined Efficiency % (I = 2)									

Combined final drive ratio	27.94	FD(1)
Combined final drive efficiency	0.9	FD(2)

For final input to NRMM all gear ratio combinations should be assigned to the transmission with only a single final drive and transfer case ratio and efficiency. TRANS (I,J) may be used to show the combined overall gear ratios and efficiencies as input for NRMM.

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8.5 - POWER TRAIN TRACTIVE EFFORT VS. SPEED RELATION

Tractive Effort vs. Speed Relationship POWER (I,J)

Number of pairs in tractive effort vs. speed relationship | 0 | IPOWER

J	SPEED km/h (I = 1)	FORCE N (I = 2)	GEAR
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

J	SPEED km/h (I = 1)	FORCE N (I = 2)	GEAR
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			

J	SPEED km/h (I = 1)	FORCE N (I = 2)	GEAR
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			

Supply at least 4 pairs for each gear - final drive combination

9.0

PROJECT ILTIS
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INITIALS ______

9.0 - SPEED LIMITED BY OBSTACLE IMPACT

Number of height values used in the obstacle height vs. speed table		NHVALS
Number of obstacle spacing values used in the obstacle spacing vs. speed table		NSVALS
Uniform obstacle height used in the obstacle spacing vs. speed table		

OBSTACLE HEIGHT VS. SPEED

NHVALS	Obstacle Height HVALS (I)	Maximum Speed VOOB(I)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

OBSTACLE SPACING VS. SPEED

NSVALS	Obstacle Spacing SVALS(I)	Maximum Speed VOOBS(I)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

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9.1 - SPEED LIMITED BY ROUGHNESS

Number of RMS entries [ ] MAXIPR

Number of tolerance levels [ ] MAXL

		1	2	3	Tolerance level number
					Power level (watts)
MAXIPR	RMS (mm) RMS(I)	Speed (km/h) VRIDE(I,J)	Speed (km/h) VRIDE(I,2)	Speed (km/h) VRIDE (I,3)	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

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10.0

10.0 - EXTRAS AND DOUBLES

CGZ = CGH
ZCG = CGH
NUNITS = 1

NTRKS = 0
NUEH1 = 1
NUEH(I) = 1

IFSEAT = 1

		1	2	3	4
Axle Number	I	1	2		
Load under wheel (N)	FUNDWL(I)	3715	4890		
Deflection of point from force-deflection rel.	DEFL(I)	12	16		
Force of point from force-deflection rel.	ZFORCE(I)	3715	4890		
Undeflected tire diameter (mm)	DIAW(I)	740	740		
Effective radius of tire (mm)	EFFRAD(I)	370	370		

		1	2	3	4
Suspension Assembly Number	I	1	2		
Powered (1) or unpowered (0) axle: wheel 1	IIP (I,1)	1	1		
wheel 2	IIP (I,2)	0	0		
Braked (1) or unbraked (0) axle: wheel 1	IIB (I,1)	1	1		
wheel 2	IIB (I,2)	0	0		
Suspension type: 0 - independent or 1 - bogie	SFLAG (I)	0	0		
Equilibrium load on suspension assembly (N)	EQUILF (I)	3550	3340		

ANNEX C

SUMMARIES OF TERRAIN FEATURES OF FRG AND CFB PETAWAWA OFF-ROAD TERRAIN TRANSECTS

Characteristics of Off-Road Terrain Units

1. terrain unit number
2. soil type (fine grained, coarse grained, CH)
3. soil strength (RCI) - dry season
4. soil strength (RCI) - average season
5. soil strength (RCI) - wet season
6. topographic slope (percent)
7. obstacle approach angle (degrees)
8. obstacle height (inches)
9. obstacle width (inches)
10. obstacle length (feet)
11. obstacle spacing (feet)
12. obstacle spacing type (avoidable or non-avoidable)
13. surface roughness (rms inches)
14. spacing of vegetation in class size 1 (in feet)
15. spacing of vegetation in class size 2 (in feet)
16. spacing of vegetation in class size 3 (in feet)
17. spacing of vegetation in class size 4 (in feet)
18. spacing of vegetation in class size 5 (in feet)
19. spacing of vegetation in class size 6 (in feet)
20. spacing of vegetation in class size 7 (in feet)
21. spacing of vegetation in class size 8 (in feet)
22. recognition distance
23. area of terrain unit (square miles)

Characteristics of Road Segments

1. road segment number
2. road type (super highway, primary road, secondary road, trail)
3. soil type (fine grained, coarse grained, CH)
4. urban code
5. soil strength (RCI) - dry season
6. soil strength (RCI) - average season
7. soil strength (RCI) - wet season
8. soil strength (RCI) - wet, wet season
9. topographic slope (percent)
10. recognition distance (feet)
11. surface roughness (rms inches)
12. AASHO curvature speed limit (miles/hour)
13. length of road segment (miles)

CFB Petawawa Transect

Number of Units 780 Total Area 459800.000

Type	Title	No. of Units	Surface Area	% of Total Area
	** SOIL TYPE **			
Fine-Grained		0	.00	.0
Coarse-Grained		599	401950.00	87.4
Muskeg		181	57850.00	12.6
CH		0	.00	.0
	** RMS ROUGHNESS (INCHES) **			
1	0.0 - 0.5	269	96225.00	20.9
2	0.6 - 1.5	147	146050.00	31.8
3	1.6 - 2.5	364	217525.00	47.3
4	2.6 - 3.5	0	.00	.0
5	3.6 - 4.5	0	.00	.0
6	4.6 - 5.5	0	.00	.0
7	5.6 - 6.5	0	.00	.0
8	6.6 - 7.5	0	.00	.0
9	> 7.5	0	.00	.0
	** SLOPE (PERCENT) **			
1	0.0 - 2.0	555	415775.00	90.4
2	2.1 - 5.0	46	13300.00	2.9
3	5.1 - 10.0	50	6925.00	1.5
4	10.1 - 20.0	35	9325.00	2.0
5	20.1 - 40.0	61	10300.00	2.2
6	40.1 - 60.0	30	3825.00	.8
7	60.1 - 70.0	3	350.00	.1
8	> 70.	0	.00	.0
	** SOIL STRENGTH (RCI) ** DRY SEASON			
1	> 280	75	23950.00	5.2
2	221 - 280	93	24750.00	5.4
3	161 - 220	56	59950.00	13.0
4	101 - 160	1	25.00	.0
5	61 - 100	8	5450.00	1.2
6	41 - 60	192	197775.00	43.0
7	33 - 40	178	90725.00	19.7
8	26 - 32	17	1550.00	.3
9	17 - 25	94	32450.00	7.1
10	11 - 16	66	23175.00	5.0
11	0 - 10	0	.00	.0

CFB Petawawa Transect

** SOIL STRENGTH (RCI) ** AVERAGE SEASON

Type	Title	No. of Units	Surface Area	% of Total Area
1	> 280	0	.00	.0
2	221 - 280	75	23950.00	5.2
3	161 - 220	93	24750.00	5.4
4	101 - 160	56	59950.00	13.0
5	61 - 100	1	25.00	.0
6	41 - 60	8	5450.00	1.2
7	33 - 40	192	197775.00	43.0
8	26 - 32	178	90725.00	19.7
9	17 - 25	17	1550.002	.3
10	11 - 16	94	32450.00	7.1
11	0 - 10	66	23175.00	5.0

** SOIL STRENGTH (RCI) ** WET SEASON

Type	Title	No. of Units	Surface Area	% of Total Area
1	> 280	0	.00	.0
2	221 - 280	0	.00	.0
3	161 - 220	75	23950.00	5.2
4	101 - 160	93	24750.00	5.4
5	61 - 100	56	59950.00	13.0
6	41 - 60	1	25.00	.0
7	33 - 40	8	5450.00	1.2
8	26 - 32	192	197775.00	43.0
9	17 - 25	178	90725.00	19.7
10	11 - 16	17	1550.00	.3
11	0 - 10	160	55625.00	12.1

** VISIBILITY (FEET) **

Type	Title	No. of Units	Surface Area	% of Total Area
1	> 164.0	191	211600.00	46.0
2	79.1 - 164.0	212	43500.00	9.5
3	39.7 - 79.0	164	56100.00	12.2
4	29.9 - 39.8	213	148600.00	32.3
5	20.0 - 29.8	0	.00	.0
6	10.2 - 15.0	0	.00	.0
7	10.2 - 15.0	0	.00	.0
8	5.2 - 10.1	0	.00	.0
9	0.0 - 5.1	0	.00	.0

** OBSTACLE WIDTH (INCHES) **

Type	Title	No. of Units	Surface Area	% of Total Area
1	> 47.2	48	30225.00	6.6
2	35.8 - 47.1	0	.00	.0
3	24.0 - 35.7	0	.00	.0
4	12.2 - 23.9	0	.00	.0
5	0.0 - 12.1	732	429575.00	93.4

CFB Petawawa Transect

Type	Title	No. of Units	Surface Area	% of Total Area
	** OBSTACLE SPACING TYPE **			
Avoidable		780	459800.00	100.0
Non-Avoidable		0	.00	.0
	** OBSTABLE LENGTH (FEET) **			
1	0.0 - 1.	279	243025.00	52.9
2	1.1 - 3.	0	.00	.0
3	3.4 - 6.	0	.00	.0
4	6.7 - 9.	0	.00	.0
5	10.0 - 19.	501	216775.00	47.1
6	19.8 - 492.	0	.00	.0
7	> 492.0	0	.00	.0
	** OBSTACLE SPACING (FEET) **			
1	Bare	279	243025.00	52.9
2	65.9 - 196.9	103	36550.00	7.9
3	36.4 - 65.8	398	180225.00	39.2
4	26.6 - 36.3	0	.00	.0
5	18.4 - 26.5	0	.00	.0
6	13.5 - 18.3	0	.00	.0
7	8.5 - 13.4	0	.00	.0
8	0.0 - 8.4	0	.00	.0
	** APPROACH ANGLE **			
1	178.6 - 180.0	780	459800.00	100.0
2	180.0 - 181.5	0	.00	.0
3	175.6 - 178.5	0	.00	.0
4	181.5 - 184.5	0	.00	.0
5	170.1 - 175.5	0	.00	.0
6	184.5 - 190.0	0	.00	.0
7	158.1 - 170.0	0	.00	.0
8	190.1 - 202.0	0	.00	.0
9	149.1 - 158.0	0	.00	.0
10	202.1 - 211.0	0	.00	.0
11	135.1 - 149.0	0	.00	.0
12	211.1 - 225.0	0	.00	.0
13	90.0 - 135.0	0	.00	.0
14	> 225.0	0	.00	.0

Germany Transect

Number of Units 481 Total Area 100.220

Type	Title	No. of Units	Surface Area	% of Total Area
		** SOIL TYPE **		
Fine-Grained		481	100.22	100.0
Coarse-Grained		0	.00	.0
Muskeg		0	.00	.0
CH		0	.00	.0
		** RMS ROUGHNESS (INCHES) **		
1	0.0 - 0.5	1	.03	.0
2	0.6 - 1.5	335	77.40	77.2
3	1.6 - 2.5	70	16.85	16.8
4	2.6 - 3.5	74	5.94	5.9
5	3.6 - 4.5	0	.00	.0
6	4.6 - 5.5	0	.00	.0
7	5.6 - 6.5	0	.00	.0
8	6.6 - 7.5	1	.00	.0
9	> 7.5	0	.00	.0
		** SLOPE (PERCENT) **		
1	0.0 - 2.0	11	1.75	1.7
2	2.1 - 5.0	100	28.26	28.2
3	5.1 - 10.0	126	27.89	27.8
4	10.1 - 20.0	116	24.83	24.8
5	20.1 - 40.0	98	13.68	13.7
6	40.1 - 60.0	25	3.64	3.6
7	60.1 - 70.0	5	.17	.2
8	> 70.	0	.00	.0
		** SOIL STRENGTH (RCI) ** DRY SEASON		
1	> 280	454	96.71	96.5
2	221 - 280	2	.06	.1
3	161 - 220	25	3.45	3.4
4	101 - 160	0	.00	.0
5	61 - 100	0	.00	.0
6	41 - 60	0	.00	.0
7	33 - 40	0	.00	.0
8	26 - 32	0	.00	.0
9	17 - 25	0	.00	.0
10	11 - 16	0	.00	.0
11	0 - 10	0	.00	.0

Germany Transect

Type	Title	No. of Units	Surface Area	% of Total Area
	** SOIL STRENGTH (RCI) ** AVERAGE SEASON			
1	> 280	69	20.79	20.7
2	221 - 280	232	37.20	37.1
3	161 - 220	21	1.08	1.1
4	101 - 160	134	37.70	37.6
5	61 - 100	0	.00	.0
6	41 - 60	25	3.45	3.4
7	33 - 40	0	.00	.0
8	26 - 32	0	.00	.0
9	17 - 25	0	.00	.0
10	11 - 16	0	.00	.0
11	0 - 10	0	.00	.0
	** SOIL STRENGTH (RCI) ** WET SEASON			
1	> 280	0	.00	.0
2	221 - 280	0	.00	.0
3	161 - 220	0	.00	.0
4	101 - 160	301	57.99	57.9
5	61 - 100	21	1.08	1.1
6	41 - 60	134	37.70	37.6
7	33 - 40	25	3.45	3.4
8	26 - 32	0	.00	.0
9	17 - 25	0	.00	.0
10	11 - 16	0	.00	.0
11	0 - 10	0	.00	.0
	** VISIBILITY (FEET) **			
1	> 164.0	0	.00	.0
2	79.1 - 164.0	410	75.02	74.9
3	39.7 - 79.0	0	.00	.0
4	29.9 - 39.8	59	24.52	24.5
5	20.0 - 29.8	0	.00	.0
6	15.1 - 19.9	6	.29	.3
7	10.2 - 15.0	6	.39	.4
8	5.2 - 10.1	0	.00	.0
9	0.0 - 5.1	0	.00	.0
	** OBSTACLE WIDTH (INCHES) **			
1	> 47.2	71	25.69	25.6
2	35.8 - 47.1	2	.06	.1
3	24.0 - 35.7	63	3.91	3.9
4	12.2 - 23.9	146	54.83	54.7
5	0.0 - 12.1	199	15.73	15.7

Germany Transect

Type	Title	No. of Units	Surface Area	% of Total Area
	** OBSTACLE HEIGHT (INCHES) **			
1	0.0 - 5.9	174	16.03	16.0
2	6.0 - 9.8	182	56.15	56.0
3	9.9 - 13.8	97	26.64	26.6
4	13.9 - 14.2	15	.86	.9
5	14.3 - 23.6	4	.14	.1
6	23.7 - 33.5	1	.12	.1
7	> 33.5	8	.28	.3
	** OBSTACLE SPACING TYPE **			
Avoidable		364	77.73	77.6
Non-Avoidable		117	22.49	22.4
	** OBSTACLE LENGTH (FEET) **			
1	0.0 - 1.	31	4.75	4.7
2	1.1 - 3.	0	.00	.0
3	3.4 - 6.	0	.00	.0
4	6.7 - 9.	0	.00	.0
5	10.0 - 19.	80	26.02	26.0
6	19.8 - 492.	253	46.96	46.9
7	> 492.0	117	22.49	22.4
	** OBSTACLE SPACING (FEET) **			
1	Bare	205	37.74	37.7
2	65.9 - 196.9	99	6.26	6.2
3	36.4 - 65.8	9	.42	.4
4	26.6 - 36.3	0	.00	.0
5	18.4 - 26.5	2	.06	.1
6	13.5 - 18.3	0	.00	.0
7	8.5 - 13.4	0	.00	.0
8	0.0 - 8.4	166	55.74	55.6

Germany Transect

Type	Title	No. of Units	Surface Area	% of Total Area
		** APPROACH ANGLE **		
1	178.6 - 180.0	5	.24	.2
2	180.0 - 181.5	0	.00	.0
3	175.6 - 178.5	68	5.75	5.7
4	181.5 - 184.5	0	.00	.0
5	170.1 - 175.5	135	9.31	9.3
6	184.5 - 190.0	0	.00	.0
7	158.1 - 170.0	70	25.13	25.1
8	190.1 - 202.0	0	.00	.0
9	149.1 - 158.0	142	53.92	53.8
10	202.1 - 211.0	0	.00	.0
11	135.1 - 149.0	18	.81	.8
12	211.1 - 225.0	0	.00	.0
13	90.0 - 135.0	3	.11	.1
14	> 225.0	40	4.95	4.9

ANNEX D

MEASUREMENT OF WEIGHT SUPPORTED BY TIRES AT FORDING DEPTH

The weight supported by the tires of an Iltis (laden), while fording through water 533 mm in depth, was determined by suspending the vehicle in a sling with a single cable and by performing the following:

1.	Weight of Iltis and sling prior to immersion	2140 kg
2.	Weight of Iltis and sling when vehicle immersed to fording depth	1492 kg
3.	Buoyant force of water (#1 minus #2)	648 kg
4.	Weight of Iltis without sling	1755 kg
5.	Weight of Iltis when fording (#4 minus #3)	1107 kg
6.	Percent of weight supported by front tires	43
7.	Fording weight supported by front tires (#5 multiplied by #6)	757 kg
8.	Fording weight supported by rear tires (#5 minus #7)	998 kg

Note: Items 7 and 8 assume the weight ratio among the axles is the same for an Iltis when fording as it is when not fording.

ANNEX E

MEASUREMENTS OF AERODYNAMIC DRAG COEFFICIENT

The aerodynamic drag coefficient was measured in the 30 foot wind tunnel at the National Research Council in Ottawa, Ontario. Experiments were performed at wind speeds of 30 km/hr to 140 km/hr. The aerodynamic drag coefficients appear in the table below. The variations in drag coefficient at different speeds are believed to have been caused by changes in the shape of the tarpaulin and upward pitching of the vehicle due to aerodynamic lift and drag.

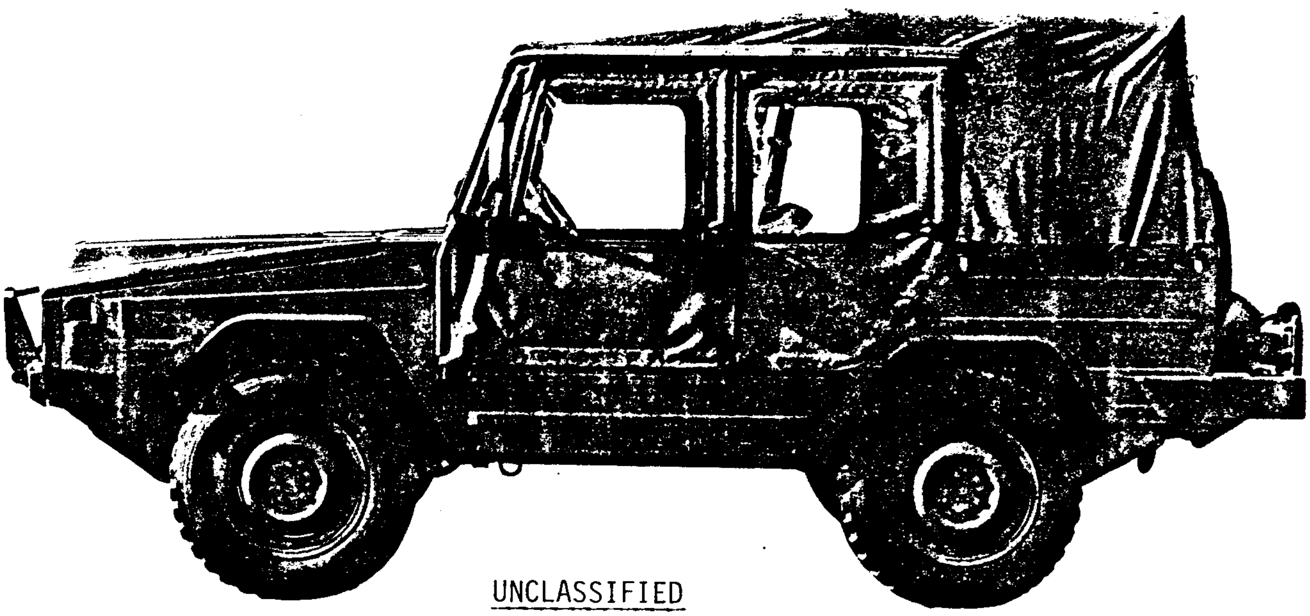
The value of drag coefficient used in simulation runs is CD = 0.537.

Wind Speed ±.5 km/hr	Aerodynamic Drag Coefficient (CD)
30	0.456
40	0.561
50	0.551
60	0.546
70	0.539
80	0.533
90	0.533
100	0.523
120	0.526
140	0.525

ANNEX F

SUSPENSION AND POWER TRAIN CHARACTERISTICS RECEIVED FROM BOMBARDIER

Bombardier Iltis*
4x4 - 0.5 ton



Bombardier Iltis – Technical Data

Engine:

Engine	METRIC	IMPERIAL
Model	VW 049	
Type	4 cylinder four stroke gasoline engine	
Displacement	1.7 litre • 1714 cm³	105 in.³
Bore and stroke	79.5 x 86.4 mm	3.13 x 3.40 in.
Compression ratio	8.2 : 1	
Fuel	gasoline low octane (regular)	
Fuel capacity	85 litres	18.7 imp. gal.)
Horsepower maximum	55 kW @ 5,000 RPM (74 HP)	
Torque: maximum net	135 N·m @ 2800 RPM	100 lbs/ft.
Crankcase capacity	4.0 l w/o filter change 4.5 l w filter change	3.5 imp. qts. 4.0 imp. qts.
Cooling system capacity	7.5 litres	1.6 imp. gal.
Carburetor	Solex 1B1 with thermostarter	
Cooling fan	two thermostatically controlled electric fans: diameter 280 mm	11 in.

Transmission:

Type	manual gearbox with integrated differential, dry single plate clutch	
Model	VW 005	
Number of speeds: forward	5	
reverse	1	
Gear ratios:		
1st	3.909	
2nd	2.277	
3rd	1.458	
4th	1.086	
reverse	7.318 not synchronized	
cross-crountry gear	7.603 not synchronized	
Final drive ratio	37: 7 = 5.286	
Lubricant capacity	3.6 litres	3.2 imp. qts.

Axles and Differentials:

Front: differential included in transmission
- type: single reduction
- ratio: 5.285

– manually controlled from inside cab
– differential lock optional - controlled manually from inside cab
– wheels driven by 2 drive shafts with constant velocity joints

Rear:

type	single reduction	
ratio	5.285	
lubricant capacity	1.2 l w/o differential lock 1.6 l w differential lock	1.0 imp. qt. 1.4 imp. qt.

– rear differential always in operation
– differential lock optional - controlled manually from inside cab
– wheels driven by 2 drive shafts with constant velocity joints

Frame:

Type	ladder (side rails and crossmembers)
Side members	closed box section
Number of crossmembers	4 transverse bracings 2 spring carriers 1 bolt-on crossmember in front

Electrical system:

Waterproof	yes
Radio suppressed	yes
Voltage	24 V
Alternator rating	55 A
Number of batteries	2

Steering:

Type	rack and pinion (maintenance fr[illegible]
Ratio	19.44

Brakes:

Type	hydraulic dual circuit diagonally split	
Dimensions: front	drum 280 mm	11.02 in
rear	drum 280 mm	11.02 in.
Total effective area per wheel: front	225.2 cm²	34.9 in.²
rear	225.2 cm²	34.9 in.²
Actuation	hydraulic with vacuum power unit	
Parking brake type	mechanical acting on rear whe[illegible]	

Suspension:

Type (front and rear)	independent wheel suspension on twin control arms

Springs:

Type (front and rear)	multi-leaf semi-elliptic transversal springs and polyurethane supplementary spring on double action shock absorbers	
Size (length × width)	97 cm × 7 cm approx. 38.18 in. × 2. 75 in. approx	
Number of leaves	4	
Rate	73.8 kN/m	422 lbs/in

Tires:

Size	6.50 R 16
Type	cross-country radial tires

Dimensions:

Dimensions	METRIC	IMPERIAL
Exterior		
• overall length	3954 mm	155.7 in
• overall width w/o mirror	1520 mm	59.8 in
• overall height - no load	1837 mm	72.3 in
• wheelbase	2017 mm	79.4 in
• tires - front/rear track	1230/1260 mm	42.4/49.6 in
• turning radius	11 m	36.08 ft
• road area	5.9 m²	65.5 ft.²
• ground clearance		
– under frame	330 mm	13 in
– under front axle	250 mm	9.8 in
– under rear axle	250 mm	9.8 in
– under front bumper	588 mm (no load)	23.1 in
– under rear bumper	590 mm (no load)	23.2 in.
• fording depth	600 mm	23.6 in.
• angle of approach/departure	41.5°/32.5°	
• ramp angle	32°	
• rollover lateral resistance	37°	
• Shipping dimensions: minimum reducible height	1370 mm	53.9 in

• Shipping cubic at min reducible height	8.2 m^3	288 ft^3
• Shipping cubic at std. dimensions	11 m^3	388 $ft.^3$
Interior		
• front		
– door to door (seat height)	1413 mm	55.6 in.
– door to door (shoulder height)	1450 mm	57.1 in.
• maximum height	1130 mm	44.5 in.
• headroom front/rear	1020/920 mm	40.2/36.2 in.
• seat width front/rear	1413/970 mm	55.6/38.2 in.
• shoulder height width front/rear	1450/1370 mm	57.0/53.9 in.
• seat height front/rear	363/363 mm	14.3/14.3 in.
• length of load area	400 mm	15.8 in.
• length of load area to frontseat backrest	1120 mm	44.1 in.
• width of load area	1370 mm	53.9 in.
• load area		
– rear seats up	0.55 m^2	5.9 ft^2
– rear seats folded	1.33 m^2	14.3 ft^2

Weights:

Unladen weight	1550 kg (depending on equipment)	3417 lbs
Payload	500 kg	1102 lbs
Total weight	2050 kg	4519 lbs
Permissible axle load:		
front	1000 kg	2200 lbs
rear	1250 kg	2756 lbs
Permissible trailer load:		
braked	2000 kg	4400 lbs
unbraked	750 kg	1653 lbs
Tongue weight (trailer)	75 kg	165 lbs

Performance:

Top speed	130 km/h	80 mi./h
Minimum speed	4 km/h	2.5 mi./h
Cruising range	700 km	435 mi.
Fuel consumption		
– in town cycle	14.6 l/100 km	19.3 mi./imp. gal.
– at constant 90 km/h	10.5 l/100 km	26.9 mi./imp. gal.
– at constant 120 km/h	15.0 l/100 km	18.8 mi./ imp. gal.
Climbing ability fully laden:		
1st gear	32.0%	
2nd gear	16.8%	
3rd gear	9.2%	
4th gear	5.3%	
Reverse gear	72.5%	
Cross-country gear	77.0%	
Climbing ability fully laden (total vehicle weight) and 750 kg trailer weight:		
1st gear	22%	
Cross-country gear	48%	
Climbing ability fully laden and 2000 kg trailer weight:		
1st gear	15%	
Cross-country gear	32%	

TOOLS and PUBLICATIONS

Each vehicle is equipped with one of each of the following items:

TOOLS

Pliers slip joint

Screwdriver flat tip

Screwdriver Phillips #2

Wrench drain plug for transmission and differential

Wheel socket

Bar wheel socket

Guide pin wheel changing

Tool bag

Jack support

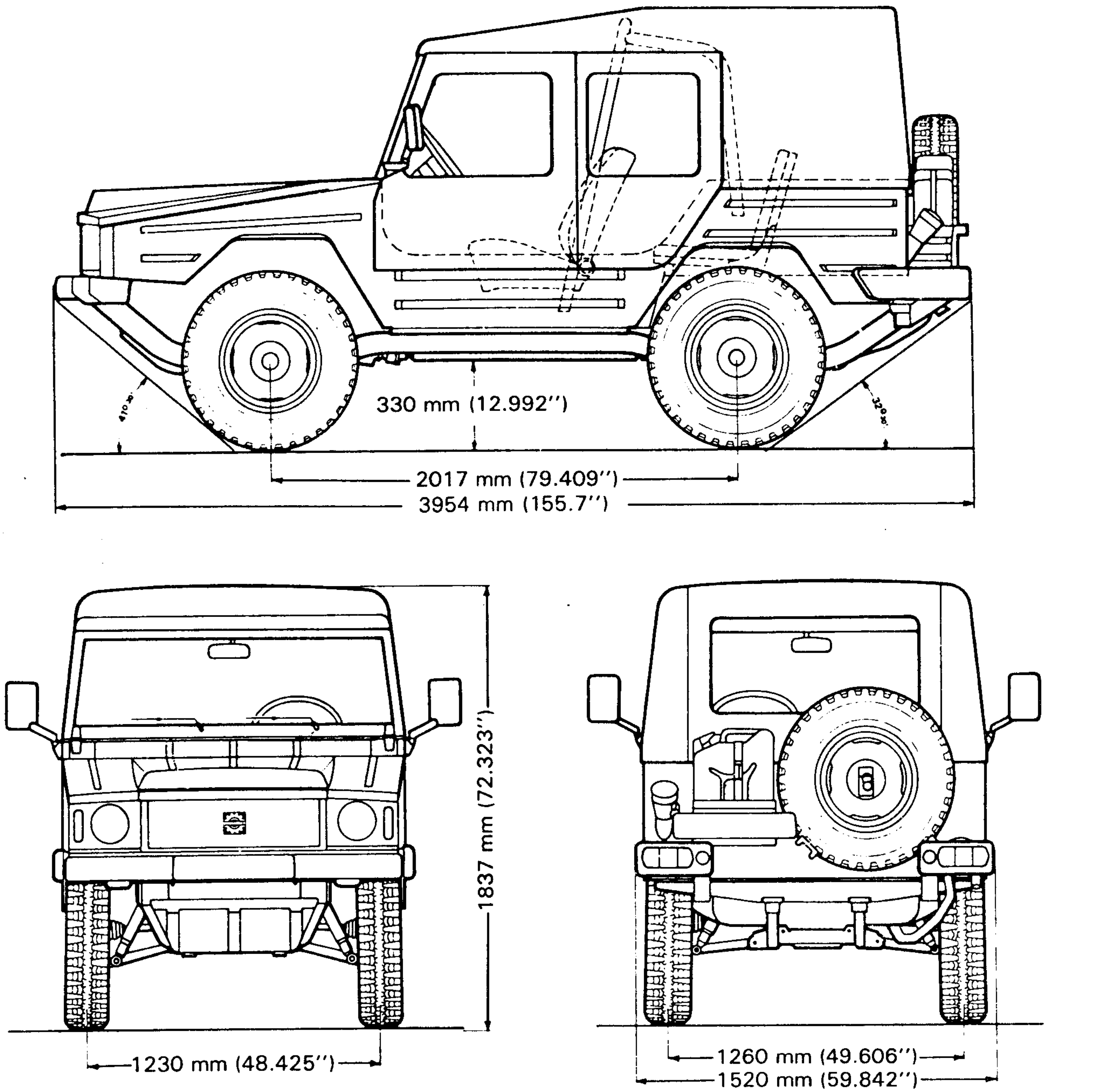
Jack

PUBLICATIONS

Operator's Manual

Lubrication Chart

BOMBARDIER ILTIS - DIMENSIONS



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SAMPLE COMPUTATION

SUSPENSION DATA - ILTIS

A. Springs

Reference : Drawing no.B183 411 103
On the diagram, the constant for fixed spring is : C=79.0 N/mm

Constant: $1\ lb_f = 4.448$ N

1 in = 25.4 mm

Hence : $C = 451.1\ lb_f/in$

Remark: - F = 0.N is rest position (+112 mm displacement)

- F = 3200 N (719 lb_f) is the estimated weight on a front wheel *

- F = 7600 N (1709 lb_f) is the estimated weight on a rear wheel *

- The value of "C" is the same for front & rear, loaded of unloaded.

* based on a hypothetical distribution of the total weight for a German Iltis.

B. Shock Absorbers

Reference : Drawing No TAB 010 125
For shock absorber part no. B183 413 031 OZ

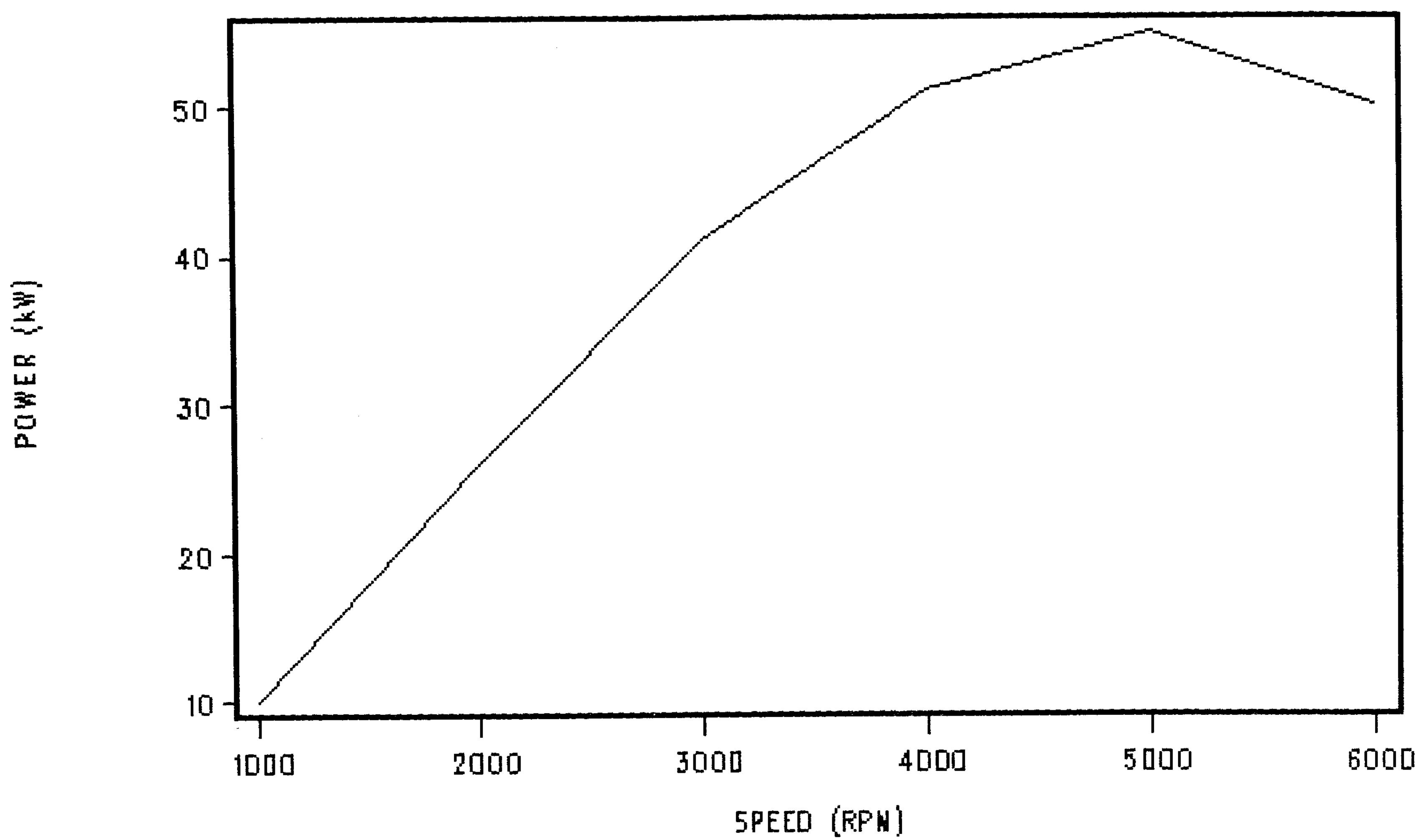
Conversion : Deflection rate (in/sec) where 1 cycle = 2 strokes

Then :

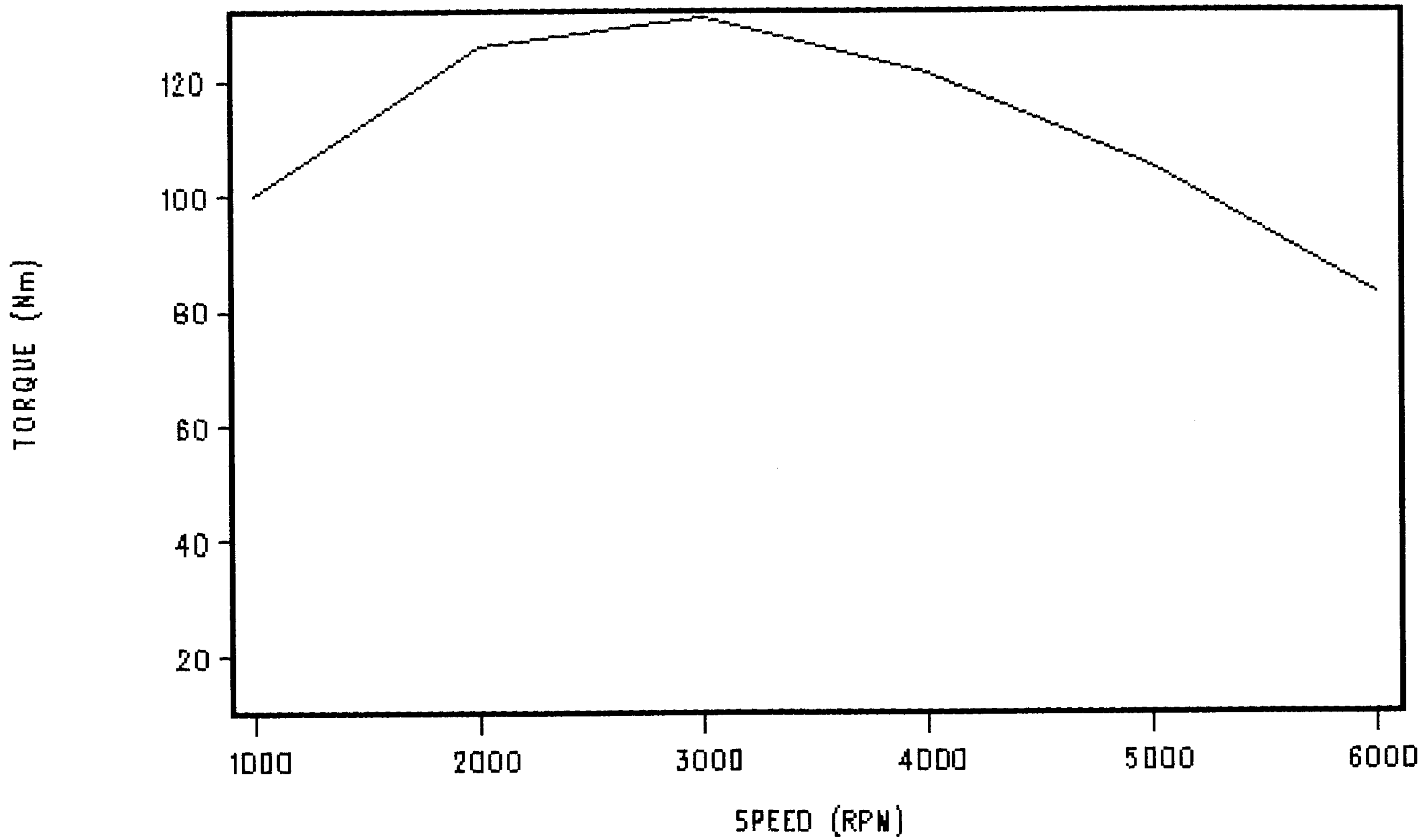
$$2 \times \text{stroke (mm)} \times 100 \text{ CPM} \times \frac{1 \text{ in}}{25.4 \text{ mm}} \times \frac{1 \text{ min}}{60 \text{ sec}} = \text{Deflection rate } \frac{\text{in}}{\text{sec}}$$

Interpretation: - Pull step = force unloading

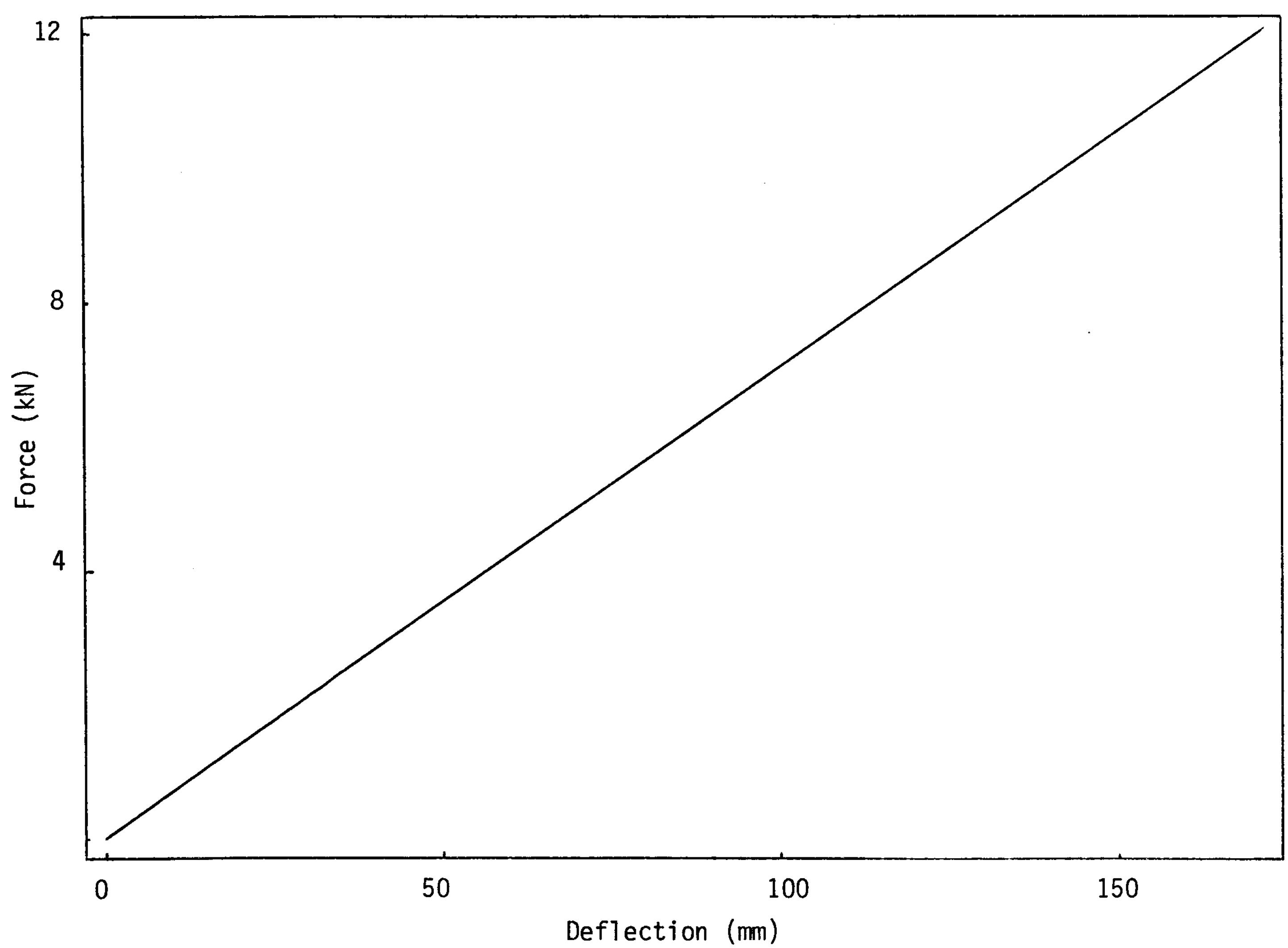
- Compression step = force loading



Power versus speed curve for VW - Iltis engine (displacement = 1.7ℓ)



Torque versus speed curve for VW - Iltis engine (displacment = 1.7ℓ)



Force - deflection curve for Iltis leaf spring

	Stroke (mm)	10	25	50	75
SHOCK ABSORBER IDENTIFICATION NUMBER	C.P.M. (min $^{-1}$)	100	100	100	100
B183 400 021	extension force (N)	850	2180 ±200	2550 ±220	2780 ±250
	compression force (N)	360	850 ±110	1130 ±110	1320 ±140

Notes: 1. Damping tested at 20° ±2°C
2. Hydraulic stop, 3800 ±400N

Extension and compression forces for Iltis shock absorber when cycled using various stroke lengths

ANNEX G

NRMM TERRAIN UNIT SPEED PREDICTIONS

The basic output of the NATO Reference Mobility Model for areal terrain units consists of the following (as it appears on the next 11 pages of this Annex):

1) Terrain unit number, NTU
2) Terrain type, ITUT

   1 - normally dry patch
   2 - marsh or other water covered patch
   11 - superhighway
   12 - primary road
   13 - secondary road
   14 - trail

3) The omnidirectional speed-made-good attainable by the vehicle in the terrain unit, VMAX (this is a harmonic average of 4, 5, and 6 below)

4) The attainable speed-made-good going with the topographic slope (up grade)

5) The attainable speed-made-good on the level across the grade)

6) The attainable speed-made-good going against the topographic slope (down grade)

7) The selected omnidirectional speed-made-good which considers both the vehicle capabilities and human factors, VSEL

8) The selected speed-made-good up grade

9) The selected speed-made-good across the grade

10) The selected speed-made-good down grade

11) Grade (topographic slope)

12) Area of the terrain unit.

Columns 13 through 20 present the same information given in columns 3 through 10 but in units of kilometers per hour rather than miles per hour. Column 21 is identical to column 1. It is repeated for ease of reading values in the table.

Note that the predicted speeds presented in columns 4, 5, and 6 as well as those in columns 8, 9, and 10 will be different only if slope is the speed limiting factor. Note also that the speed prediction listed as applying to operation on the level actually refers to operation across the slope. In other words, the vehicle is assumed to be operating on a side slope but not climbing or descending a grade.

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1 NTU	ITUT	VMAX	UP	LEVEL	DOWN	VSEL	UP	LEVEL	DOWN	GRADE	AREA	VMAX	UP	LEVEL	DOWN	VSEL	UP	LEVEL	DOWN	NTU
		<-------	-------	-------		MI./HR.	-------	-------	------->			<-------	-------	-------	KM./HR.		-------	-------	------->	
4	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	4
5	1	8.43	8.43	.00	.00	8.43	8.43	.00	.00	3.50	.0700	13.57	13.57	.00	.00	13.57	13.57	.00	.00	5
10	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.3300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	10
14	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	14
19	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.1100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	19
20	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	20
23	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	23
24	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	1.7300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	24
25	1	8.43	8.43	.00	.00	8.43	8.43	.00	.00	3.50	.1500	13.57	13.57	.00	.00	13.57	13.57	.00	.00	25
26	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.1200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	26
27	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	3.50	.0100	3.30	3.30	.00	.00	3.30	3.30	.00	.00	27
32	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	7.50	.3400	11.99	11.99	.00	.00	11.99	11.99	.00	.00	32
33	1	8.43	8.43	.00	.00	8.43	8.43	.00	.00	7.50	.0200	13.57	13.57	.00	.00	13.57	13.57	.00	.00	33
37	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.1800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	37
38	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	7.50	.0900	11.99	11.99	.00	.00	11.99	11.99	.00	.00	38
41	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	41
42	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.3600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	42
45	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.2200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	45
48	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	7.50	.0800	11.99	11.99	.00	.00	11.99	11.99	.00	.00	48
52	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.1200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	52
53	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	2.4500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	53
55	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.6300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	55
58	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	7.50	.2200	3.30	3.30	.00	.00	3.30	3.30	.00	.00	58
62	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	.0500	.00	.00	.00	.00	.00	.00	.00	.00	62
63	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.2500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	63
66	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.2400	7.45	7.45	.00	.00	7.45	7.45	.00	.00	66
71	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0800	7.45	7.45	.00	.00	7.45	7.45	.00	.00	71
72	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.1600	7.45	7.45	.00	.00	7.45	7.45	.00	.00	72
75	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	75
81	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.3400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	81
83	1	8.43	8.43	.00	.00	8.43	8.43	.00	.00	15.00	.0200	13.57	13.57	.00	.00	13.57	13.57	.00	.00	83
86	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.0900	11.99	11.99	.00	.00	11.99	11.99	.00	.00	86
93	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.0500	11.99	11.99	.00	.00	11.99	11.99	.00	.00	93
98	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	3.6700	11.99	11.99	.00	.00	11.99	11.99	.00	.00	98
100	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.1000	11.99	11.99	.00	.00	11.99	11.99	.00	.00	100
103	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0800	7.45	7.45	.00	.00	7.45	7.45	.00	.00	103
104	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.7400	7.45	7.45	.00	.00	7.45	7.45	.00	.00	104
113	1	3.51	3.51	.00	.00	3.51	3.51	.00	.00	15.00	.2800	5.65	5.65	.00	.00	5.65	5.65	.00	.00	113
116	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0100	11.99	11.99	.00	.00	11.99	11.99	.00	.00	116
117	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0400	7.45	7.45	.00	.00	7.45	7.45	.00	.00	117
118	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0300	11.99	11.99	.00	.00	11.99	11.99	.00	.00	118
126	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.1000	7.45	7.45	.00	.00	7.45	7.45	.00	.00	126
127	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.1600	7.45	7.45	.00	.00	7.45	7.45	.00	.00	127

128	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.1300	7.45	7.45	.00	.00	7.45	7.45	.00	.00	128
132	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0200	11.99	11.99	.00	.00	11.99	11.99	.00	.00	132
133	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.2200	11.99	11.99	.00	.00	11.99	11.99	.00	.00	133
135	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0900	11.99	11.99	.00	.00	11.99	11.99	.00	.00	135
138	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.1500	7.45	7.45	.00	.00	7.45	7.45	.00	.00	138
144	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0100	11.99	11.99	.00	.00	11.99	11.99	.00	.00	144
146	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0300	11.99	11.99	.00	.00	11.99	11.99	.00	.00	146
148	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	3.1500	11.99	11.99	.00	.00	11.99	11.99	.00	.00	148
149	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0700	11.99	11.99	.00	.00	11.99	11.99	.00	.00	149
151	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.5400	7.45	7.45	.00	.00	7.45	7.45	.00	.00	151
157	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	157
158	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0100	11.99	11.99	.00	.00	11.99	11.99	.00	.00	158
159	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0200	7.45	7.45	.00	.00	7.45	7.45	.00	.00	159
162	1	3.51	3.51	.00	.00	3.51	3.51	.00	.00	30.00	.0800	5.65	5.65	.00	.00	5.65	5.65	.00	.00	162
164	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	50.00	.0300	7.45	7.45	.00	.00	7.45	7.45	.00	.00	164
165	1	10.97	10.97	.00	.00	10.97	10.97	.00	.00	50.00	.0300	17.65	17.65	.00	.00	17.65	17.65	.00	.00	165
172	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	50.00	.0000	7.45	7.45	.00	.00	7.45	7.45	.00	.00	172
173	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	50.00	.0000	11.99	11.99	.00	.00	11.99	11.99	.00	.00	173
174	1	10.97	10.97	.00	.00	10.97	10.97	.00	.00	50.00	.0000	17.65	17.65	.00	.00	17.65	17.65	.00	.00	174
176	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	50.00	.0200	7.45	7.45	.00	.00	7.45	7.45	.00	.00	176
179	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	50.00	.1600	11.99	11.99	.00	.00	11.99	11.99	.00	.00	179
182	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	50.00	.0300	11.99	11.99	.00	.00	11.99	11.99	.00	.00	182
184	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	50.00	.0500	11.99	11.99	.00	.00	11.99	11.99	.00	.00	184
185	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	50.00	1.7400	11.99	11.99	.00	.00	11.99	11.99	.00	.00	185
186	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	50.00	.1800	7.45	7.45	.00	.00	7.45	7.45	.00	.00	186
187	1	10.97	10.97	.00	.00	10.97	10.97	.00	.00	50.00	.0800	17.66	17.66	.00	.00	17.66	17.66	.00	.00	187
198	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	1.00	.1200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	198
200	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	1.00	.0800	3.30	3.30	.00	.00	3.30	3.30	.00	.00	200
201	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	1.00	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	201
207	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	207
208	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.1900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	208
213	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	213
214	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	214
219	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	219
224	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	224
225	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	225
227	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	227
237	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	237
239	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	239
242	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	242
244	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	244
246	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	246
247	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	247
248	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	248
259	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	259
262	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.3000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	262
263	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	263
270	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	2.2400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	270

272	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	272
273	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	273
274	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	274
276	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.1200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	276
282	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	282
286	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	286
288	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	288
292	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	1.8600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	292
293	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	293
294	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	294
295	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	295
296	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	296
297	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	3.50	.5900	3.30	3.30	.00	.00	3.30	3.30	.00	.00	297
299	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	3.50	.0600	3.30	3.30	.00	.00	3.30	3.30	.00	.00	299
304	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.1400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	304
307	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	307
313	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	1.4000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	313
314	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	314
318	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	318
319	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	319
320	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	320
321	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	321
325	1	9.56	9.56	.00	.00	9.56	9.56	.00	.00	3.50	.0400	15.38	15.38	.00	.00	15.38	15.38	.00	.00	325
330	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	330
333	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	7.50	.0100	11.99	11.99	.00	.00	11.99	11.99	.00	.00	333
336	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.2900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	336
343	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	343
344	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	344
348	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	348
350	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	350
354	1	10.57	10.57	.00	.00	10.57	10.57	.00	.00	7.50	.0400	17.01	17.01	.00	.00	17.01	17.01	.00	.00	354
358	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.1200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	358
360	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.1500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	360
361	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	361
364	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	364
365	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	365
369	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	369
375	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	375
376	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	376
381	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	7.50	.0900	11.99	11.99	.00	.00	11.99	11.99	.00	.00	381
386	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	386
391	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	391
392	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	392
393	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	393
395	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	7.50	.0100	11.99	11.99	.00	.00	11.99	11.99	.00	.00	395
397	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.1600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	397
398	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	398
400	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	400

401	1	10.57	10.57	.00	.00	10.57	10.57	.00	.00	7.50	.0000	17.01	17.01	.00	.00	17.01	17.01	.00	.00	401
403	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	403
406	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	406
407	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	407
408	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	408
409	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	409
416	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	7.50	.0400	11.99	11.99	.00	.00	11.99	11.99	.00	.00	416
418	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	418
419	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	419
425	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	7.50	.0000	11.99	11.99	.00	.00	11.99	11.99	.00	.00	425
427	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	2.1800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	427
431	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	431
432	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	432
435	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	435
437	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	437
443	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	443
447	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	2.9700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	447
448	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.2100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	448
454	1	9.57	9.57	.00	.00	9.57	9.57	.00	.00	7.50	.0700	15.41	15.41	.00	.00	15.41	15.41	.00	.00	454
455	1	3.44	3.44	.00	.00	3.44	3.44	.00	.00	7.50	.0000	5.54	5.54	.00	.00	5.54	5.54	.00	.00	455
457	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	7.50	.7100	3.30	3.30	.00	.00	3.30	3.30	.00	.00	457
458	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	7.50	.0000	3.30	3.30	.00	.00	3.30	3.30	.00	.00	458
463	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	7.50	.0000	3.30	3.30	.00	.00	3.30	3.30	.00	.00	463
467	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	467
468	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.2300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	468
470	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	470
471	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	471
474	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	.0300	.00	.00	.00	.00	.00	.00	.00	.00	474
481	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	.0400	.00	.00	.00	.00	.00	.00	.00	.00	481
482	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	.0500	.00	.00	.00	.00	.00	.00	.00	.00	482
486	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	.0100	.00	.00	.00	.00	.00	.00	.00	.00	486
489	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	489
490	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.6500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	490
494	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	494
496	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	496
504	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	.0000	.00	.00	.00	.00	.00	.00	.00	.00	504
510	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.1200	7.45	7.45	.00	.00	7.45	7.45	.00	.00	510
515	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.1700	11.99	11.99	.00	.00	11.99	11.99	.00	.00	515
524	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	524
527	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	527
528	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.1100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	528
530	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0900	7.45	7.45	.00	.00	7.45	7.45	.00	.00	530
531	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.0200	11.99	11.99	.00	.00	11.99	11.99	.00	.00	531
533	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0400	7.45	7.45	.00	.00	7.45	7.45	.00	.00	533
539	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.0500	11.99	11.99	.00	.00	11.99	11.99	.00	.00	539
541	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	541
543	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.1100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	543
544	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.1300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	544

547	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	547
553	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.0000	11.99	11.99	.00	.00	11.99	11.99	.00	.00	553
555	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.0300	11.99	11.99	.00	.00	11.99	11.99	.00	.00	555
558	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	558
559	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0300	7.45	7.45	.00	.00	7.45	7.45	.00	.00	559
564	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	564
565	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.2400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	565
567	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.0100	11.99	11.99	.00	.00	11.99	11.99	.00	.00	567
568	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.1700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	568
569	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	569
574	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.0500	11.99	11.99	.00	.00	11.99	11.99	.00	.00	574
582	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0200	7.45	7.45	.00	.00	7.45	7.45	.00	.00	582
584	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.2200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	584
590	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	590
595	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.0300	11.99	11.99	.00	.00	11.99	11.99	.00	.00	595
596	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0400	7.45	7.45	.00	.00	7.45	7.45	.00	.00	596
598	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	598
603	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0300	7.45	7.45	.00	.00	7.45	7.45	.00	.00	603
611	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.1400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	611
613	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0600	7.45	7.45	.00	.00	7.45	7.45	.00	.00	613
614	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.0400	11.99	11.99	.00	.00	11.99	11.99	.00	.00	614
616	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.1600	11.99	11.99	.00	.00	11.99	11.99	.00	.00	616
632	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.0500	11.99	11.99	.00	.00	11.99	11.99	.00	.00	632
634	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	2.7100	11.99	11.99	.00	.00	11.99	11.99	.00	.00	634
636	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0300	7.45	7.45	.00	.00	7.45	7.45	.00	.00	636
639	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	639
641	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	641
652	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	652
665	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	665
670	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0200	7.45	7.45	.00	.00	7.45	7.45	.00	.00	670
673	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	3.9100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	673
674	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0900	7.45	7.45	.00	.00	7.45	7.45	.00	.00	674
677	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	677
679	1	9.47	9.47	.00	.00	9.47	9.47	.00	.00	15.00	.0300	15.24	15.24	.00	.00	15.24	15.24	.00	.00	679
681	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	15.00	1.2600	3.30	3.30	.00	.00	3.30	3.30	.00	.00	681
682	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	15.00	.0600	3.30	3.30	.00	.00	3.30	3.30	.00	.00	682
686	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	15.00	.0100	3.30	3.30	.00	.00	3.30	3.30	.00	.00	686
692	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.1000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	692
694	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.2200	11.99	11.99	.00	.00	11.99	11.99	.00	.00	694
697	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	697
698	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	15.00	.0400	3.30	3.30	.00	.00	3.30	3.30	.00	.00	698
699	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	15.00	.0400	3.30	3.30	.00	.00	3.30	3.30	.00	.00	699
700	1	.00	.00	.00	.00	.00	.00	.00	.00	15.00	.0800	.00	.00	.00	.00	.00	.00	.00	.00	700
704	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.2300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	704
709	1	3.51	3.51	.00	.00	3.51	3.51	.00	.00	15.00	.0000	5.65	5.65	.00	.00	5.65	5.65	.00	.00	709
723	1	.00	.00	.00	.00	.00	.00	.00	.00	15.00	.0900	.00	.00	.00	.00	.00	.00	.00	.00	723
725	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0700	7.45	7.45	.00	.00	7.45	7.45	.00	.00	725
731	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.4700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	731

735	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0300	7.45	7.45	.00	.00	7.45	7.45	.00	.00	735
740	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	740
741	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.2100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	741
743	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0900	11.99	11.99	.00	.00	11.99	11.99	.00	.00	743
744	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0200	11.99	11.99	.00	.00	11.99	11.99	.00	.00	744
746	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.1800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	746
748	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	748
749	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0200	7.45	7.45	.00	.00	7.45	7.45	.00	.00	749
750	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0100	7.45	7.45	.00	.00	7.45	7.45	.00	.00	750
751	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0300	11.99	11.99	.00	.00	11.99	11.99	.00	.00	751
766	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.2700	7.45	7.45	.00	.00	7.45	7.45	.00	.00	766
767	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0500	7.45	7.45	.00	.00	7.45	7.45	.00	.00	767
768	1	12.65	12.65	.00	.00	12.65	12.65	.00	.00	30.00	.0000	20.36	20.36	.00	.00	20.36	20.36	.00	.00	768
774	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	774
775	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0600	11.99	11.99	.00	.00	11.99	11.99	.00	.00	775
776	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0200	7.45	7.45	.00	.00	7.45	7.45	.00	.00	776
777	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.2000	7.45	7.45	.00	.00	7.45	7.45	.00	.00	777
778	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0200	7.45	7.45	.00	.00	7.45	7.45	.00	.00	778
780	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.1600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	780
789	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	789
791	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0400	11.99	11.99	.00	.00	11.99	11.99	.00	.00	791
792	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0600	7.45	7.45	.00	.00	7.45	7.45	.00	.00	792
793	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0700	7.45	7.45	.00	.00	7.45	7.45	.00	.00	793
800	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0200	11.99	11.99	.00	.00	11.99	11.99	.00	.00	800
801	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0100	11.99	11.99	.00	.00	11.99	11.99	.00	.00	801
804	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0300	11.99	11.99	.00	.00	11.99	11.99	.00	.00	804
806	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0800	11.99	11.99	.00	.00	11.99	11.99	.00	.00	806
819	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	1.7000	11.99	11.99	.00	.00	11.99	11.99	.00	.00	819
821	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.1300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	821
829	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0400	11.99	11.99	.00	.00	11.99	11.99	.00	.00	829
830	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.1400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	830
832	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0100	11.99	11.99	.00	.00	11.99	11.99	.00	.00	832
833	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.1300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	833
834	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0000	11.99	11.99	.00	.00	11.99	11.99	.00	.00	834
838	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0300	11.99	11.99	.00	.00	11.99	11.99	.00	.00	838
840	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	1.2100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	840
842	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	842
843	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	843
846	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	30.00	.2800	3.30	3.30	.00	.00	3.30	3.30	.00	.00	846
850	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	30.00	.0400	3.30	3.30	.00	.00	3.30	3.30	.00	.00	850
854	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.2500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	854
859	1	.00	.00	.00	.00	.00	.00	.00	.00	30.00	.0100	.00	.00	.00	.00	.00	.00	.00	.00	859
860	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	30.00	.0500	3.30	3.30	.00	.00	3.30	3.30	.00	.00	860
861	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	30.00	.0200	3.30	3.30	.00	.00	3.30	3.30	.00	.00	861
863	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.1000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	863
865	1	.00	.00	.00	.00	.00	.00	.00	.00	30.00	.0000	.00	.00	.00	.00	.00	.00	.00	.00	865
868	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	868
869	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0000	11.99	11.99	.00	.00	11.99	11.99	.00	.00	869

872	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0000	11.99	11.99	.00	.00	11.99	11.99	.00	.00	872
877	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	877
879	1	.00	.00	.00	.00	.00	.00	.00	.00	30.00	.0100	.00	.00	.00	.00	.00	.00	.00	.00	879
883	1	10.97	10.97	.00	.00	10.97	10.97	.00	.00	50.00	.1400	17.65	17.65	.00	.00	17.65	17.65	.00	.00	883
891	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	50.00	.0400	11.99	11.99	.00	.00	11.99	11.99	.00	.00	891
898	1	10.97	10.97	.00	.00	10.97	10.97	.00	.00	50.00	.0300	17.65	17.65	.00	.00	17.65	17.65	.00	.00	898
901	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	50.00	.0300	11.99	11.99	.00	.00	11.99	11.99	.00	.00	901
902	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	50.00	.0400	11.99	11.99	.00	.00	11.99	11.99	.00	.00	902
908	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	50.00	.2900	11.99	11.99	.00	.00	11.99	11.99	.00	.00	908
912	1	10.97	10.97	.00	.00	10.97	10.97	.00	.00	50.00	.2400	17.66	17.66	.00	.00	17.66	17.66	.00	.00	912
915	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	50.00	.0900	3.30	3.30	.00	.00	3.30	3.30	.00	.00	915
916	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	50.00	.1200	3.30	3.30	.00	.00	3.30	3.30	.00	.00	916
919	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	50.00	.0500	7.45	7.45	.00	.00	7.45	7.45	.00	.00	919
920	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	50.00	.0500	3.30	3.30	.00	.00	3.30	3.30	.00	.00	920
927	1	.00	.00	.00	.00	.00	.00	.00	.00	65.00	.0000	.00	.00	.00	.00	.00	.00	.00	.00	927
928	1	.00	.00	.00	.00	.00	.00	.00	.00	65.00	.0600	.00	.00	.00	.00	.00	.00	.00	.00	928
929	1	.00	.00	.00	.00	.00	.00	.00	.00	65.00	.0000	.00	.00	.00	.00	.00	.00	.00	.00	929
932	1	.00	.00	.00	.00	.00	.00	.00	.00	65.00	.0400	.00	.00	.00	.00	.00	.00	.00	.00	932
936	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	1.00	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	936
937	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	1.00	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	937
939	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	939
940	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	940
941	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	941
942	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.2300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	942
943	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	3.50	.0400	3.30	3.30	.00	.00	3.30	3.30	.00	.00	943
944	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	944
945	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	945
955	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	955
958	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.1100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	958
961	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	7.50	.1000	3.30	3.30	.00	.00	3.30	3.30	.00	.00	961
964	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	964
966	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	966
968	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	968
969	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	969
971	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.1200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	971
973	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	15.00	.0200	3.30	3.30	.00	.00	3.30	3.30	.00	.00	973
978	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0700	11.99	11.99	.00	.00	11.99	11.99	.00	.00	978
979	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	979
980	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	30.00	.0200	3.30	3.30	.00	.00	3.30	3.30	.00	.00	980
988	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	1.00	.4800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	988
989	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	1.00	.4900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	989
990	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	1.00	.2700	3.30	3.30	.00	.00	3.30	3.30	.00	.00	990
994	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	1.00	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	994
998	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	998
999	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	999
1008	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1008
1017	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1017
1019	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1019

1021	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1021
1028	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1028
1029	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1029
1032	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1032
1033	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1033
1034	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1034
1042	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.1400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1042
1044	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1044
1046	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	6.5800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1046
1047	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.6200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1047
1049	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1049
1051	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1051
1052	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1052
1053	1	9.62	9.62	.00	.00	9.62	9.62	.00	.00	3.50	.0100	15.48	15.48	.00	.00	15.48	15.48	.00	.00	1053
1054	1	9.62	9.62	.00	.00	9.62	9.62	.00	.00	3.50	.0200	15.48	15.48	.00	.00	15.48	15.48	.00	.00	1054
1056	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	3.50	6.5300	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1056
1057	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	3.50	.0100	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1057
1058	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	3.50	.0300	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1058
1061	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	3.50	.0000	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1061
1063	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1063
1065	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	.0300	.00	.00	.00	.00	.00	.00	.00	.00	1065
1066	1	3.80	3.80	.00	.00	3.80	3.80	.00	.00	3.50	.0000	6.11	6.11	.00	.00	6.11	6.11	.00	.00	1066
1070	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.1200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1070
1071	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.7100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1071
1078	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1078
1079	1	9.94	9.94	.00	.00	9.94	9.94	.00	.00	3.50	.0000	16.00	16.00	.00	.00	16.00	16.00	.00	.00	1079
1081	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1081
1082	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	7.50	.0900	11.99	11.99	.00	.00	11.99	11.99	.00	.00	1082
1083	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1083
1085	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1085
1086	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1086
1087	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.1300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1087
1088	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1088
1089	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	7.50	.1200	11.99	11.99	.00	.00	11.99	11.99	.00	.00	1089
1090	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1090
1094	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	7.50	.0800	11.99	11.99	.00	.00	11.99	11.99	.00	.00	1094
1095	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1095
1096	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1096
1099	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1099
1100	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1100
1104	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1104
1106	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1106
1109	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1109
1118	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1118
1119	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1119
1122	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1122
1123	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	7.50	.0800	11.99	11.99	.00	.00	11.99	11.99	.00	.00	1123
1126	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1126

1130	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1130
1134	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1134
1136	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	7.50	.0600	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1136
1137	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1137
1138	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1138
1139	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1139
1142	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	5.9300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1142
1143	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1143
1144	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1144
1149	1	9.57	9.57	.00	.00	9.57	9.57	.00	.00	7.50	.0000	15.41	15.41	.00	.00	15.41	15.41	.00	.00	1149
1152	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	7.50	4.4700	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1152
1154	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	7.50	.0500	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1154
1162	1	7.88	7.88	.00	.00	7.88	7.88	.00	.00	7.50	.0000	12.69	12.69	.00	.00	12.69	12.69	.00	.00	1162
1165	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	.0500	.00	.00	.00	.00	.00	.00	.00	.00	1165
1169	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	7.50	.1300	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1169
1170	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	.0600	.00	.00	.00	.00	.00	.00	.00	.00	1170
1172	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.3600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1172
1173	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1173
1175	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1175
1179	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	7.50	.1300	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1179
1181	1	9.90	9.90	.00	.00	9.90	9.90	.00	.00	7.50	.0000	15.93	15.93	.00	.00	15.93	15.93	.00	.00	1181
1186	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0300	7.45	7.45	.00	.00	7.45	7.45	.00	.00	1186
1190	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1190
1193	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.3100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1193
1196	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1196
1197	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.2300	7.45	7.45	.00	.00	7.45	7.45	.00	.00	1197
1199	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1199
1201	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1201
1202	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.1000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1202
1204	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1204
1211	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1211
1213	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1213
1214	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	15.00	.0000	11.99	11.99	.00	.00	11.99	11.99	.00	.00	1214
1217	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1217
1223	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1223
1225	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.1400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1225
1227	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1227
1229	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1229
1235	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0300	7.45	7.45	.00	.00	7.45	7.45	.00	.00	1235
1236	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0400	7.45	7.45	.00	.00	7.45	7.45	.00	.00	1236
1239	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1239
1241	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1241
1253	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.1100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1253
1255	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1255
1256	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.1100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1256
1258	1	7.77	7.77	.00	.00	7.77	7.77	.00	.00	15.00	.0400	12.50	12.50	.00	.00	12.50	12.50	.00	.00	1258
1259	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	2.5900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1259
1260	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1260

1264	1	9.47	9.47	.00	.00	9.47	9.47	.00	.00	15.00	.1100	15.24	15.24	.00	.00	15.24	15.24	.00	.00	1264
1265	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	15.00	1.6600	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1265
1270	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	15.00	.1400	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1270
1273	1	4.40	4.40	.00	.00	4.40	4.40	.00	.00	15.00	.0000	7.07	7.07	.00	.00	7.07	7.07	.00	.00	1273
1277	1	.00	.00	.00	.00	.00	.00	.00	.00	15.00	.0700	.00	.00	.00	.00	.00	.00	.00	.00	1277
1282	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1282
1286	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1286
1289	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1289
1292	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1292
1293	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0400	7.45	7.45	.00	.00	7.45	7.45	.00	.00	1293
1294	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0600	11.99	11.99	.00	.00	11.99	11.99	.00	.00	1294
1295	1	7.45	7.45	.00	.00	7.45	7.45	.00	.00	30.00	.0600	11.99	11.99	.00	.00	11.99	11.99	.00	.00	1295
1298	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1298
1299	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.1400	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1299
1308	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.2100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1308
1311	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0100	7.45	7.45	.00	.00	7.45	7.45	.00	.00	1311
1317	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1317
1318	1	12.65	12.65	.00	.00	12.65	12.65	.00	.00	30.00	.0600	20.36	20.36	.00	.00	20.36	20.36	.00	.00	1318
1320	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1320
1321	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1321
1326	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.2800	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1326
1330	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	30.00	.4700	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1330
1333	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0700	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1333
1337	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	30.00	.0500	7.45	7.45	.00	.00	7.45	7.45	.00	.00	1337
1338	1	.00	.00	.00	.00	.00	.00	.00	.00	30.00	.0200	.00	.00	.00	.00	.00	.00	.00	.00	1338
1354	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	50.00	.0100	7.45	7.45	.00	.00	7.45	7.45	.00	.00	1354
1355	1	.00	.00	.00	.00	.00	.00	.00	.00	65.00	.0700	.00	.00	.00	.00	.00	.00	.00	.00	1355
1360	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0500	7.45	7.45	.00	.00	7.45	7.45	.00	.00	1360
1361	1	4.63	4.63	.00	.00	4.63	4.63	.00	.00	15.00	.0100	7.45	7.45	.00	.00	7.45	7.45	.00	.00	1361
1364	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	1.00	.1200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1364
1365	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	1.00	.1400	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1365
1368	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0900	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1368
1369	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.1100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1369
1370	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1370
1372	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.1200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1372
1375	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	1.1600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1375
1376	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	3.50	.1000	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1376
1377	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.2500	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1377
1380	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	3.50	.0100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1380
1382	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.1100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1382
1384	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0000	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1384
1386	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.3300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1386
1387	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	7.50	.0200	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1387
1388	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	7.50	.0300	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1388
1392	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.1100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1392
1395	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1395
1396	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	15.00	.1600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1396
1397	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	15.00	.0600	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1397

1399	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0200	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1399
1402	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1402
1403	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.1100	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1403
1404	1	2.05	2.05	.00	.00	2.05	2.05	.00	.00	30.00	.0500	3.30	3.30	.00	.00	3.30	3.30	.00	.00	1404
1406	1	14.30	14.30	.00	.00	14.30	14.30	.00	.00	30.00	.0600	23.01	23.01	.00	.00	23.01	23.01	.00	.00	1406
1407	1	10.94	10.94	.00	.00	10.94	10.94	.00	.00	50.00	.1900	17.60	17.60	.00	.00	17.60	17.60	.00	.00	1407

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NTU	ITUT	VMAX (MI./HR.)	UP LEVEL		DOWN	VSEL	UP LEVEL		DOWN	GRADE	AREA	VMAX (KM./HR.)	UP LEVEL		DOWN	VSEL	UP LEVEL		DOWN	NTU
1	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	1
2	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	2
3	1	12.81	12.99	12.81	12.63	12.81	12.99	12.81	12.63	1.00	******	20.61	20.91	20.62	20.32	20.61	20.91	20.62	20.32	3
4	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	4
5	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	5
6	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	6
7	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	7
8	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	8
9	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	9
10	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	10
11	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	11
12	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	12
13	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	13
14	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	14
15	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	15
16	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	16
17	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	17
18	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	18
19	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	19
20	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	20
21	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	21
22	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	22
23	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	23
24	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	24
25	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	25
26	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	26
27	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	27
28	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	28
29	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	29
30	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	30
31	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	31
32	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	32
33	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	33
34	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	34

35	1	12.81	12.99	12.81	12.63	12.81	12.99	12.81	12.63	1.00	******	20.61	20.91	20.62	20.32	20.61	20.91	20.62	20.32	35
36	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	36
37	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	37
38	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	38
39	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	39
40	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	40
41	1	12.81	12.99	12.81	12.63	12.81	12.99	12.81	12.63	1.00	******	20.61	20.91	20.62	20.32	20.61	20.91	20.62	20.32	41
42	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	42
43	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	43
44	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	3.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	44
45	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	45
46	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	46
47	1	25.58	28.80	26.01	22.68	25.58	28.80	26.01	22.68	7.50	******	41.17	46.35	41.87	36.50	41.17	46.35	41.87	36.50	47
48	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	48
49	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	49
50	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	50
51	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	15.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	51
52	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	52
53	1	.00	.00	14.30	.00	.00	.00	14.30	.00	30.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	53
54	1	.00	.00	14.30	.00	.00	.00	14.30	.00	30.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	54
55	1	.00	.00	14.30	.00	.00	.00	14.30	.00	30.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	55
56	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	56
57	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	57
58	1	.00	.00	14.30	.00	.00	.00	14.30	.00	30.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	58
59	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	59
60	1	.00	.00	12.81	.00	.00	.00	12.81	.00	50.00	******	.00	.00	20.62	.00	.00	.00	20.62	.00	60
61	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	61
62	1	.00	.00	14.30	.00	.00	.00	14.30	.00	50.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	62
63	1	.00	.00	14.30	.00	.00	.00	14.30	.00	50.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	63
64	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	64
65	1	.00	.00	14.30	.00	.00	.00	14.30	.00	50.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	65
66	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	66
67	1	.00	.00	14.30	.00	.00	.00	14.30	.00	50.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	67
68	1	.00	.00	14.30	.00	.00	.00	14.30	.00	50.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	68
69	1	.00	.00	30.71	.00	.00	.00	30.71	.00	50.00	******	.00	.00	49.43	.00	.00	.00	49.43	.00	69
70	1	.00	.00	14.30	.00	.00	.00	14.30	.00	50.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	70
71	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	71
72	1	.00	.00	14.30	.00	.00	.00	14.30	.00	50.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	72
73	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	73
74	1	.00	.00	14.30	.00	.00	.00	14.30	.00	50.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	74
75	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	75
76	1	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	1.00	******	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	76
77	1	12.32	12.49	12.34	12.14	12.32	12.49	12.34	12.14	1.00	******	19.83	20.10	19.86	19.54	19.83	20.10	19.86	19.54	77
78	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	78
79	1	12.32	12.49	12.34	12.14	12.32	12.49	12.34	12.14	1.00	******	19.83	20.10	19.86	19.54	19.83	20.10	19.86	19.54	79
80	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	80
81	1	12.32	12.49	12.34	12.14	12.32	12.49	12.34	12.14	1.00	******	19.83	20.10	19.86	19.54	19.83	20.10	19.86	19.54	81
82	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	82

83	1	12.32	12.49	12.34	12.14	12.32	12.49	12.34	12.14	1.00	******	19.83	20.10	19.86	19.54	19.83	20.10	19.86	19.54	83
84	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	84
85	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	85
86	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	86
87	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	87
88	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	88
89	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	89
90	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	90
91	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	91
92	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	92
93	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	93
94	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	94
95	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	95
96	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	96
97	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	97
98	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	98
99	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	99
100	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	100
101	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	101
102	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	102
103	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	103
104	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	104
105	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	105
106	1	12.33	12.53	12.34	12.14	12.33	12.53	12.34	12.14	1.00	******	19.85	20.16	19.86	19.54	19.85	20.16	19.86	19.54	106
107	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	107
108	1	12.33	12.53	12.34	12.14	12.33	12.53	12.34	12.14	1.00	******	19.85	20.16	19.86	19.54	19.85	20.16	19.86	19.54	108
109	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	109
110	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	110
111	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	111
112	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	112
113	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	113
114	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	114
115	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	115
116	1	12.33	12.53	12.34	12.14	12.33	12.53	12.34	12.14	1.00	******	19.85	20.16	19.86	19.54	19.85	20.16	19.86	19.54	116
117	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	117
118	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	3.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	118
119	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	3.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	119
120	1	11.79	12.49	12.34	10.71	11.79	12.49	12.34	10.71	7.50	******	18.97	20.10	19.86	17.24	18.97	20.10	19.86	17.24	120
121	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	121
122	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	122
123	1	12.11	13.64	12.34	10.71	12.11	13.64	12.34	10.71	7.50	******	19.49	21.96	19.86	17.24	19.49	21.96	19.86	17.24	123
124	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	124
125	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	125
126	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	126
127	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	127
128	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	128
129	1	10.80	12.49	12.34	8.57	10.80	12.49	12.34	8.57	15.00	******	17.38	20.10	19.86	13.80	17.38	20.10	19.86	13.80	129
130	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	130

131	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	131
132	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	132
133	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	133
134	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	134
135	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	15.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	135
136	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	136
137	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	137
138	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	138
139	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	139
140	1	11.21	14.30	12.34	8.57	11.21	14.30	12.34	8.57	15.00	******	18.04	23.01	19.86	13.80	18.04	23.01	19.86	13.80	140
141	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	15.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	141
142	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	142
143	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	143
144	1	.00	.00	12.34	.00	.00	.00	12.34	.00	30.00	******	.00	.00	19.86	.00	.00	.00	19.86	.00	144
145	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	145
146	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	146
147	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	147
148	1	.00	.00	14.30	.00	.00	.00	14.30	.00	30.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	148
149	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	149
150	1	.00	.00	14.30	.00	.00	.00	14.30	.00	30.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	150
151	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	151
152	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	152
153	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	153
154	1	.00	.00	14.30	.00	.00	.00	14.30	.00	30.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	154
155	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	155
156	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	156
157	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	157
158	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	158
159	1	.00	.00	12.34	.00	.00	.00	12.34	.00	50.00	******	.00	.00	19.86	.00	.00	.00	19.86	.00	159
160	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	160
161	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	161
162	1	.00	.00	14.30	.00	.00	.00	14.30	.00	50.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	162
163	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	163
164	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	164
165	1	.00	.00	14.30	.00	.00	.00	14.30	.00	50.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	165
166	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	166
167	1	28.06	28.53	28.07	27.60	28.06	28.53	28.07	27.60	1.00	******	45.16	45.92	45.18	44.42	45.16	45.92	45.18	44.42	167
168	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	168
169	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	169
170	1	24.41	24.86	24.42	23.98	24.41	24.86	24.42	23.98	1.00	******	39.29	40.00	39.31	38.59	39.29	40.00	39.31	38.59	170
171	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	171
172	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	172
173	1	28.80	29.33	28.81	28.27	28.80	29.33	28.81	28.27	1.00	******	46.34	47.20	46.36	45.50	46.34	47.20	46.36	45.50	173
174	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	174
175	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	175
176	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	176
177	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	177
178	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	178

179	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	179
180	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	180
181	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	181
182	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	182
183	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	3.50	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	183
184	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	3.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	184
185	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	3.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	185
186	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	3.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	186
187	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	3.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	187
188	1	24.31	25.90	24.42	22.81	24.31	25.90	24.42	22.81	3.50	******	39.12	41.68	39.31	36.71	39.12	41.68	39.31	36.71	188
189	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	3.50	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	189
190	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	3.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	190
191	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	3.50	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	191
192	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	3.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	192
193	1	28.67	30.57	28.81	26.88	28.67	30.57	28.81	26.88	3.50	******	46.14	49.20	46.36	43.26	46.14	49.20	46.36	43.26	193
194	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	3.50	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	194
195	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	3.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	195
196	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	3.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	196
197	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	197
198	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	198
199	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	199
200	1	23.89	27.43	24.42	20.75	23.89	27.43	24.42	20.75	7.50	******	38.44	44.15	39.31	33.40	38.44	44.15	39.31	33.40	200
201	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	201
202	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	7.50	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	202
203	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	203
204	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	204
205	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	205
206	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	206
207	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	207
208	1	.00	.00	.00	.00	.00	.00	.00	.00	15.00	******	.00	.00	.00	.00	.00	.00	.00	.00	208
209	1	.00	.00	7.45	7.45	.00	.00	7.45	7.45	15.00	******	.00	.00	11.99	11.99	.00	.00	11.99	11.99	209
210	1	.00	.00	24.42	15.99	.00	.00	24.42	15.99	15.00	******	.00	.00	39.31	25.73	.00	.00	39.31	25.73	210
211	1	.00	.00	7.45	7.45	.00	.00	7.45	7.45	15.00	******	.00	.00	11.99	11.99	.00	.00	11.99	11.99	211
212	1	.00	.00	24.42	15.99	.00	.00	24.42	15.99	15.00	******	.00	.00	39.31	25.73	.00	.00	39.31	25.73	212
213	1	.00	.00	7.45	7.45	.00	.00	7.45	7.45	15.00	******	.00	.00	11.99	11.99	.00	.00	11.99	11.99	213
214	1	.00	.00	14.30	14.30	.00	.00	14.30	14.30	15.00	******	.00	.00	23.01	23.01	.00	.00	23.01	23.01	214
215	1	.00	.00	7.45	7.45	.00	.00	7.45	7.45	15.00	******	.00	.00	11.99	11.99	.00	.00	11.99	11.99	215
216	1	.00	.00	7.45	7.45	.00	.00	7.45	7.45	15.00	******	.00	.00	11.99	11.99	.00	.00	11.99	11.99	216
217	1	.00	.00	7.45	7.45	.00	.00	7.45	7.45	15.00	******	.00	.00	11.99	11.99	.00	.00	11.99	11.99	217
218	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	218
219	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	219
220	1	.00	.00	14.30	.00	.00	.00	14.30	.00	30.00	******	.00	.00	23.01	.00	.00	.00	23.01	.00	220
221	1	.00	.00	7.45	.00	.00	.00	7.45	.00	30.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	221
222	1	.00	.00	7.45	.00	.00	.00	7.45	.00	50.00	******	.00	.00	11.99	.00	.00	.00	11.99	.00	222
223	1	14.30	14.30	14.30	14.30	14.30	14.30	14.30	14.30	1.00	******	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	223
224	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	224
225	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	225
226	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	226

227	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	227
228	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	228
229	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	229
230	1	.00	.00	.00	7.45	.00	.00	.00	7.45	7.50	******	.00	.00	.00	11.99	.00	.00	.00	11.99	230
231	1	.00	.00	.00	.00	.00	.00	.00	.00	65.00	******	.00	.00	.00	.00	.00	.00	.00	.00	231
232	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	232
233	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	233
234	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	234
235	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	235
236	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	236
237	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	237
238	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	238
239	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	239
240	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	240
241	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	241
242	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	242
243	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	243
244	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	244
245	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	245
246	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	246
247	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	247
248	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	248
249	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	249
250	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	250
251	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	251
252	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	252
253	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	253
254	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	254
255	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	255
256	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	256
257	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	257
258	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	258
259	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	259
260	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	260
261	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	261
262	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	262
263	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	263
264	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	264
265	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	265
266	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	266
267	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	267
268	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	268
269	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	269
270	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	270
271	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	271
272	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	272
273	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	273
274	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	274

275	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	275
276	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	276
277	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	277
278	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	278
279	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	279
280	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	280
281	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	281
282	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	282
283	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	283
284	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	284
285	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	285
286	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	286
287	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	287
288	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	288
289	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	289
290	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	290
291	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	291
292	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	292
293	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	293
294	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	294
295	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	295
296	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	296
297	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	297
298	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	298
299	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	299
300	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	300
301	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	301
302	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	302
303	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	303
304	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	304
305	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	305
306	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	306
307	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	307
308	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	308
309	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	309
310	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	310
311	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	311
312	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	312
313	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	313
314	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	314
315	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	315
316	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	316
317	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	317
318	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	318
319	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	319
320	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	320
321	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	321
322	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	322

323	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	323
324	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	324
325	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	325
326	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	326
327	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	327
328	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	328
329	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	329
330	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	330
331	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	331
332	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	332
333	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	333
334	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	334
335	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	335
336	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	336
337	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	337
338	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	338
339	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	339
340	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	340
341	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	341
342	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	342
343	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	343
344	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	344
345	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	345
346	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	346
347	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	347
348	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	348
349	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	349
350	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	350
351	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	351
352	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	352
353	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	353
354	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	354
355	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	355
356	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	356
357	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	357
358	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	358
359	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	359
360	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	360
361	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	361
362	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	362
363	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	363
364	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	364
365	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	365
366	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	366
367	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	367
368	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	368
369	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	369
370	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	370

371	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	371
372	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	372
373	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	373
374	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	374
375	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	375
376	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	376
377	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	377
378	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	378
379	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	379
380	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	380
381	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	381
382	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	382
383	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	383
384	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	384
385	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	385
386	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	386
387	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	387
388	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	388
389	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	389
390	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	390
391	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	391
392	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	392
393	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	393
394	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	394
395	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	395
396	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	396
397	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	397
398	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	398
399	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	399
400	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	400
401	1	.00	.00	.00	7.45	.00	.00	.00	7.45	7.50	******	.00	.00	.00	11.99	.00	.00	.00	11.99	401
402	1	.00	.00	.00	7.45	.00	.00	.00	7.45	7.50	******	.00	.00	.00	11.99	.00	.00	.00	11.99	402
403	1	.00	.00	.00	14.90	.00	.00	.00	14.90	7.50	******	.00	.00	.00	23.99	.00	.00	.00	23.99	403
404	1	.00	.00	.00	7.45	.00	.00	.00	7.45	7.50	******	.00	.00	.00	11.99	.00	.00	.00	11.99	404
405	1	.00	.00	.00	7.45	.00	.00	.00	7.45	15.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	405
406	1	.00	.00	.00	7.45	.00	.00	.00	7.45	15.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	406
407	1	.00	.00	.00	12.49	.00	.00	.00	12.49	15.00	******	.00	.00	.00	20.10	.00	.00	.00	20.10	407
408	1	.00	.00	.00	7.45	.00	.00	.00	7.45	15.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	408
409	1	.00	.00	.00	7.45	.00	.00	.00	7.45	15.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	409
410	1	.00	.00	.00	7.45	.00	.00	.00	7.45	15.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	410
411	1	.00	.00	.00	32.26	.00	.00	.00	32.26	30.00	******	.00	.00	.00	51.92	.00	.00	.00	51.92	411
412	1	.00	.00	.00	32.26	.00	.00	.00	32.26	30.00	******	.00	.00	.00	51.92	.00	.00	.00	51.92	412
413	1	.00	.00	.00	38.23	.00	.00	.00	38.23	30.00	******	.00	.00	.00	61.53	.00	.00	.00	61.53	413
414	1	.00	.00	.00	14.30	.00	.00	.00	14.30	30.00	******	.00	.00	.00	23.01	.00	.00	.00	23.01	414
415	1	.00	.00	.00	7.45	.00	.00	.00	7.45	30.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	415
416	1	.00	.00	.00	38.23	.00	.00	.00	38.23	30.00	******	.00	.00	.00	61.53	.00	.00	.00	61.53	416
417	1	.00	.00	.00	32.26	.00	.00	.00	32.26	30.00	******	.00	.00	.00	51.92	.00	.00	.00	51.92	417
418	1	.00	.00	.00	14.30	.00	.00	.00	14.30	50.00	******	.00	.00	.00	23.01	.00	.00	.00	23.01	418

419	1	.00	.00	.00	14.30	.00	.00	.00	14.30	50.00	******	.00	.00	.00	23.01	.00	.00	.00	23.01	419
420	1	.00	.00	.00	7.45	.00	.00	.00	7.45	50.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	420
421	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	421
422	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	422
423	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	423
424	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	424
425	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	425
426	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	426
427	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	427
428	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	428
429	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	429
430	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	430
431	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	431
432	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	432
433	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	433
434	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	434
435	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	435
436	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	436
437	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	437
438	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	438
439	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	439
440	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	440
441	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	441
442	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	442
443	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	443
444	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	444
445	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	445
446	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	446
447	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	447
448	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	448
449	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	449
450	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	450
451	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	451
452	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	452
453	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	453
454	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	454
455	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	455
456	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	456
457	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	457
458	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	458
459	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	459
460	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	460
461	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	461
462	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	462
463	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	463
464	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	464
465	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	465
466	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	466

467	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	467
468	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	468
469	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	469
470	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	470
471	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	471
472	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	472
473	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	473
474	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	474
475	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	475
476	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	476
477	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	477
478	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	478
479	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	479
480	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	480
481	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	481
482	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	482
483	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	483
484	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	484
485	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	485
486	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	486
487	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	487
488	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	488
489	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	489
490	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	490
491	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	491
492	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	492
493	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	493
494	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	494
495	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	495
496	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	496
497	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	497
498	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	498
499	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	499
500	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	500
501	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	501
502	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	502
503	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	503
504	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	504
505	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	505
506	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	506
507	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	507
508	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	508
509	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	509
510	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	510
511	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	511
512	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	512
513	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	513
514	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	514

515	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	515
516	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	516
517	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	517
518	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	518
519	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	519
520	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	520
521	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	521
522	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	522
523	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	523
524	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	524
525	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	525
526	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	526
527	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	527
528	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	528
529	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	529
530	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	530
531	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	531
532	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	532
533	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	533
534	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	534
535	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	535
536	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	536
537	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	537
538	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	538
539	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	539
540	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	540
541	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	541
542	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	542
543	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	543
544	1	.00	.00	.00	7.45	.00	.00	.00	7.45	30.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	544
545	1	.00	.00	.00	7.45	.00	.00	.00	7.45	30.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	545
546	1	.00	.00	.00	7.45	.00	.00	.00	7.45	30.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	546
547	1	.00	.00	.00	7.45	.00	.00	.00	7.45	30.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	547
548	1	.00	.00	.00	7.45	.00	.00	.00	7.45	30.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	548
549	1	.00	.00	.00	12.49	.00	.00	.00	12.49	30.00	******	.00	.00	.00	20.10	.00	.00	.00	20.10	549
550	1	.00	.00	.00	7.45	.00	.00	.00	7.45	30.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	550
551	1	.00	.00	.00	12.49	.00	.00	.00	12.49	30.00	******	.00	.00	.00	20.10	.00	.00	.00	20.10	551
552	1	.00	.00	.00	7.45	.00	.00	.00	7.45	30.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	552
553	1	.00	.00	.00	23.65	.00	.00	.00	23.65	30.00	******	.00	.00	.00	38.06	.00	.00	.00	38.06	553
554	1	.00	.00	.00	7.45	.00	.00	.00	7.45	30.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	554
555	1	.00	.00	.00	23.65	.00	.00	.00	23.65	30.00	******	.00	.00	.00	38.06	.00	.00	.00	38.06	555
556	1	.00	.00	.00	23.65	.00	.00	.00	23.65	30.00	******	.00	.00	.00	38.06	.00	.00	.00	38.06	556
557	1	.00	.00	.00	23.65	.00	.00	.00	23.65	30.00	******	.00	.00	.00	38.06	.00	.00	.00	38.06	557
558	1	.00	.00	.00	7.45	.00	.00	.00	7.45	30.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	558
559	1	.00	.00	.00	.00	.00	.00	.00	.00	30.00	******	.00	.00	.00	.00	.00	.00	.00	.00	559
560	1	.00	.00	.00	.00	.00	.00	.00	.00	30.00	******	.00	.00	.00	.00	.00	.00	.00	.00	560
561	1	.00	.00	.00	26.36	.00	.00	.00	26.36	30.00	******	.00	.00	.00	42.42	.00	.00	.00	42.42	561
562	1	.00	.00	.00	7.45	.00	.00	.00	7.45	30.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	562

563	1	.00	.00	.00	26.36	.00	.00	.00	26.36	30.00	******	.00	.00	.00	42.42	.00	.00	.00	42.42	563
564	1	.00	.00	.00	26.36	.00	.00	.00	26.36	30.00	******	.00	.00	.00	42.42	.00	.00	.00	42.42	564
565	1	.00	.00	.00	22.83	.00	.00	.00	22.83	30.00	******	.00	.00	.00	36.75	.00	.00	.00	36.75	565
566	1	.00	.00	.00	22.83	.00	.00	.00	22.83	30.00	******	.00	.00	.00	36.75	.00	.00	.00	36.75	566
567	1	.00	.00	.00	22.83	.00	.00	.00	22.83	30.00	******	.00	.00	.00	36.75	.00	.00	.00	36.75	567
568	1	.00	.00	.00	22.83	.00	.00	.00	22.83	30.00	******	.00	.00	.00	36.75	.00	.00	.00	36.75	568
569	1	.00	.00	.00	7.45	.00	.00	.00	7.45	30.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	569
570	1	.00	.00	.00	27.77	.00	.00	.00	27.77	30.00	******	.00	.00	.00	44.69	.00	.00	.00	44.69	570
571	1	.00	.00	.00	27.77	.00	.00	.00	27.77	30.00	******	.00	.00	.00	44.69	.00	.00	.00	44.69	571
572	1	.00	.00	.00	7.45	.00	.00	.00	7.45	65.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	572
573	1	.00	.00	.00	7.45	.00	.00	.00	7.45	65.00	******	.00	.00	.00	11.99	.00	.00	.00	11.99	573
574	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	574
575	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	575
576	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	576
577	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	577
578	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	578
579	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	579
580	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	580
581	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	581
582	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	582
583	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	583
584	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	584
585	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	585
586	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	586
587	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	587
588	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	588
589	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	589
590	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	590
591	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	591
592	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	592
593	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	593
594	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	594
595	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	595
596	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	596
597	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	597
598	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	598
599	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	599
600	1	34.68	34.68	34.68	34.68	34.68	34.68	34.68	34.68	1.00	******	55.81	55.81	55.81	55.81	55.81	55.81	55.81	55.81	600
601	1	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83	1.00	******	36.75	36.75	36.75	36.75	36.75	36.75	36.75	36.75	601
602	1	12.81	12.49	12.49	13.50	12.81	12.49	12.49	13.50	1.00	******	20.61	20.10	20.10	21.73	20.61	20.10	20.10	21.73	602
603	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	603
604	1	28.22	25.78	28.50	30.83	28.22	25.78	28.50	30.83	1.00	******	45.41	41.49	45.86	49.62	45.41	41.49	45.86	49.62	604
605	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	605
606	1	12.49	12.49	12.49	12.49	12.49	12.49	12.49	12.49	1.00	******	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10	606
607	1	15.50	14.69	15.55	16.36	15.50	14.69	15.55	16.36	1.00	******	24.95	23.64	25.03	26.32	24.95	23.64	25.03	26.32	607
608	1	15.50	14.69	15.55	16.36	15.50	14.69	15.55	16.36	1.00	******	24.95	23.64	25.03	26.32	24.95	23.64	25.03	26.32	608
609	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	609
610	1	15.50	14.69	15.55	16.36	15.50	14.69	15.55	16.36	1.00	******	24.95	23.64	25.03	26.32	24.95	23.64	25.03	26.32	610

611	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	611
612	1	15.50	14.69	15.55	16.36	15.50	14.69	15.55	16.36	1.00	******	24.95	23.64	25.03	26.32	24.95	23.64	25.03	26.32	612
613	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	613
614	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	614
615	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	615
616	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	616
617	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	617
618	1	15.50	14.69	15.55	16.36	15.50	14.69	15.55	16.36	1.00	******	24.95	23.64	25.03	26.32	24.95	23.64	25.03	26.32	618
619	1	15.50	14.69	15.55	16.36	15.50	14.69	15.55	16.36	1.00	******	24.95	23.64	25.03	26.32	24.95	23.64	25.03	26.32	619
620	1	15.50	14.69	15.55	16.36	15.50	14.69	15.55	16.36	1.00	******	24.95	23.64	25.03	26.32	24.95	23.64	25.03	26.32	620
621	1	15.50	14.69	15.55	16.36	15.50	14.69	15.55	16.36	1.00	******	24.95	23.64	25.03	26.32	24.95	23.64	25.03	26.32	621
622	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	1.00	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	622
623	1	15.50	14.69	15.55	16.36	15.50	14.69	15.55	16.36	1.00	******	24.95	23.64	25.03	26.32	24.95	23.64	25.03	26.32	623
624	1	15.50	14.69	15.55	16.36	15.50	14.69	15.55	16.36	1.00	******	24.95	23.64	25.03	26.32	24.95	23.64	25.03	26.32	624
625	1	15.50	14.69	15.55	16.36	15.50	14.69	15.55	16.36	1.00	******	24.95	23.64	25.03	26.32	24.95	23.64	25.03	26.32	625
626	1	15.50	14.69	15.55	16.36	15.50	14.69	15.55	16.36	1.00	******	24.95	23.64	25.03	26.32	24.95	23.64	25.03	26.32	626
627	1	12.39	12.20	12.49	12.49	12.39	12.20	12.49	12.49	3.50	******	19.94	19.64	20.10	20.10	19.94	19.64	20.10	20.10	627
628	1	12.72	8.99	15.55	16.55	12.72	8.99	15.55	16.55	7.50	******	20.46	14.47	25.03	26.63	20.46	14.47	25.03	26.63	628
629	1	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.50	******	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	629
630	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	630
631	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	631
632	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	632
633	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	633
634	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	634
635	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	635
636	1	.00	.00	.00	4.88	.00	.00	.00	4.88	3.50	******	.00	.00	.00	7.85	.00	.00	.00	7.85	636
637	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	637
638	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	638
639	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	639
640	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	640
641	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	641
642	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	642
643	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	643
644	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	644
645	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	645
646	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	646
647	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	647
648	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	648
649	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	649
650	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	650
651	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	651
652	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	652
653	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	653
654	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	654
655	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	655
656	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	656
657	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	657
658	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	658

659	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	659
660	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	660
661	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	661
662	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	662
663	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	663
664	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	664
665	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	665
666	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	666
667	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	667
668	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	668
669	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	669
670	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	670
671	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	671
672	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	672
673	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	673
674	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	674
675	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	675
676	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	676
677	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	677
678	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	678
679	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	679
680	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	680
681	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	681
682	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	682
683	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	683
684	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	684
685	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	685
686	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	686
687	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	687
688	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	688
689	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	689
690	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	690
691	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	691
692	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	692
693	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	693
694	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	694
695	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	695
696	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	696
697	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	697
698	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	698
699	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	699
700	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	700
701	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	701
702	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	702
703	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	703
704	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	704
705	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	705
706	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	706

707	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	707
708	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	708
709	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	709
710	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	710
711	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	711
712	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	712
713	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	713
714	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	714
715	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	715
716	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	716
717	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	717
718	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	718
719	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	719
720	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	720
721	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	721
722	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	722
723	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	723
724	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	724
725	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	725
726	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	726
727	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	727
728	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	728
729	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	729
730	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	730
731	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	731
732	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	732
733	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	733
734	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	734
735	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	735
736	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	736
737	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	737
738	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	738
739	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	739
740	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	740
741	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	741
742	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	742
743	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	743
744	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	744
745	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	745
746	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	746
747	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	747
748	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	748
749	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	749
750	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	750
751	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	751
752	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	752
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755	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	755
756	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	756
757	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	757
758	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	758
759	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	759
760	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	760
761	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	761
762	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	762
763	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	763
764	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	764
765	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	765
766	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	766
767	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	767
768	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	768
769	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	769
770	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	770
771	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	771
772	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	772
773	1	.00	.00	.00	.00	.00	.00	.00	.00	1.00	******	.00	.00	.00	.00	.00	.00	.00	.00	773
774	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	774
775	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	775
776	1	.00	.00	.00	.00	.00	.00	.00	.00	3.50	******	.00	.00	.00	.00	.00	.00	.00	.00	776
777	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	777
778	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	778
779	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	779
780	1	.00	.00	.00	.00	.00	.00	.00	.00	7.50	******	.00	.00	.00	.00	.00	.00	.00	.00	780

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13. ABSTRACT

The Directorate of Land Requirements (DLR), in an effort to assess the usefulness of the NATO Reference Mobility Model (NRMM) in vehicle procurement activities, initiated a study at the Defence Research Establishment Suffield with the following objectives: 1) to determine the difficulty and time required to provide all necessary NRMM input data for a typical wheeled vehicle; 2) to determine the time required to perform an NRMM evaluation; and 3) to establish a wheeled vehicle baseline. The vehicle chosen for this study was the Iltis 4X4 ¼ ton truck. All required vehicle characteristics were obtained within an acceptable time frame with the exception of the pitch-mass-moment of inertia of the sprung mass, which eventually was measured at an American laboratory. The NRMM simulation of the Iltis 4X4 required approximately one month to complete. The baseline performance is represented by curves of speed versus cumulative percent of area and by a mobility rating speed of 40 kilometers per hour over representative German terrain.

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